
boxsdk Documentation

Release 2.0.0

Author

Dec 15, 2018

Contents

1	Installing	1
2	Source Code	3
3	Quickstart	5
4	Creating an App for Users	7
4.1	Authorization	7
4.2	Making requests to Box	7
5	Module Documentation	9
5.1	boxsdk package	9
5.1.1	Subpackages	9
5.1.1.1	boxsdk.auth package	9
5.1.1.2	boxsdk.client package	14
5.1.1.3	boxsdk.network package	27
5.1.1.4	boxsdk.object package	30
5.1.1.5	boxsdk.pagination package	70
5.1.1.6	boxsdk.session package	73
5.1.1.7	boxsdk.util package	75
5.1.2	Submodules	80
5.1.3	boxsdk.config module	80
5.1.4	boxsdk.exception module	80
5.1.5	boxsdk.version module	82
5.1.6	Module contents	82
6	Indices and tables	83
	Python Module Index	85

CHAPTER 1

Installing

```
pip install boxsdk
```


CHAPTER 2

Source Code

<https://github.com/box/box-python-sdk>

Create a developer token from your app's configuration page (<https://app.box.com/developers/services>).

You'll be prompted for it on the command line.

```
$ from boxsdk import DevelopmentClient
$ client = DevelopmentClient()
>>> Enter developer token: <enter your developer token>
$ me = client.user().get()

GET https://api.box.com/2.0/users/me {'headers': {u'Authorization': u'Bearer ----KkeV
↪',
      u'User-Agent': u'box-python-sdk-1.4.3'},
  'params': None}

{"type": "user", "id": "----6009", "name": "Jeffrey Meadows", "login": "jmeadows@box.com", ...
↪}

$ me.name
>>> Jeffrey Meadows
```

The `DevelopmentClient` uses Box developer tokens for auth (and will prompt you for a new token upon expiration), and logs API requests and responses, making it really easy to get started learning the SDK and Box API.

Creating an App for Users

4.1 Authorization

If you'd like other users to use your app, you need to set up a way for them to authorize your app and grant it access to their Box account. The `auth` module contains several classes to help you do that.

The simplest class is the `OAuth2` class. To use it, instantiate it with your `client_id` and `client_secret`.

Follow the [tutorial on GitHub](#) for instructions on how to get an authorized client for a user. Using the `store_tokens` callback, you may persist the user's auth and refresh tokens for the next time they use your app. Once they return to your app, you can create an authorized client like so:

```
from boxsdk import OAuth2, Client

oauth = OAuth2(
    client_id='YOUR_CLIENT_ID',
    client_secret='YOUR_CLIENT_SECRET',
    store_tokens=your_store_tokens_callback_method,
    access_token=persisted_access_token,
    refresh_token=persisted_refresh_token,
)
client = Client(oauth)
```

4.2 Making requests to Box

Once you have an authorized client, you can use it to make requests to Box on your user's behalf. The client has several methods to help you get started, many of which return Box objects, which, in turn, have methods that correspond to Box API endpoints.

The module documentation below describes each of these methods and which parameters they require. Some API endpoints do not have corresponding SDK methods; for those, you can use the generic `make_request` method of the client.

5.1 boxsdk package

5.1.1 Subpackages

5.1.1.1 boxsdk.auth package

Submodules

boxsdk.auth.cooperatively_managed_oauth2 module

```
class boxsdk.auth.cooperatively_managed_oauth2.CooperativelyManagedOAuth2(retrieve_tokens=None,
                                                                           *args,
                                                                           **kwargs)
```

Bases: *boxsdk.auth.cooperatively_managed_oauth2.CooperativelyManagedOAuth2Mixin*

Box SDK OAuth2 subclass. Allows for sharing auth tokens between multiple clients. The `retrieve_tokens` callback should return the current access/refresh token pair.

```
class boxsdk.auth.cooperatively_managed_oauth2.CooperativelyManagedOAuth2Mixin(retrieve_tokens=None,
                                                                                  *args,
                                                                                  **kwargs)
```

Bases: *boxsdk.auth.oauth2.OAuth2*

Box SDK OAuth2 mixin. Allows for sharing auth tokens between multiple clients.

boxsdk.auth.developer_token_auth module

```
class boxsdk.auth.developer_token_auth.DeveloperTokenAuth(get_new_token_callback=None,
                                                            **kwargs)
```

Bases: *boxsdk.auth.oauth2.OAuth2*

```
ENTER_TOKEN_PROMPT = u'Enter developer token: '
```

revoke ()

Base class override. Do nothing; developer tokens can't be revoked without client ID and secret.

boxsdk.auth.jwt_auth module

```
class boxsdk.auth.jwt_auth.JWTAuth(client_id, client_secret, enterprise_id,  
    jwt_key_id, rsa_private_key_file_sys_path=None,  
    rsa_private_key_passphrase=None, user=None,  
    store_tokens=None, box_device_id=u'0',  
    box_device_name=u'', access_token=None,  
    session=None, jwt_algorithm=u'RS256',  
    rsa_private_key_data=None, **kwargs)
```

Bases: `boxsdk.auth.oauth2.OAuth2`

Responsible for handling JWT Auth for Box Developer Edition. Can authenticate enterprise instances or app users.

authenticate_app_user (*user*=None)

Get an access token for a User.

May be one of this application's created App User. Depending on the configured User Access Level, may also be any other App User or Managed User in the enterprise.

<<https://docs.box.com/docs/configuring-box-platform#section-3-enabling-app-auth-and-app-users>>

<<https://docs.box.com/docs/authentication#section-choosing-an-authentication-type>>

Parameters **user** (*unicode* or *User*) – (optional) The user to authenticate, expressed as a Box User ID or as a *User* instance.

If not given, then the most recently provided user ID, if available, will be used.

Raises *ValueError* if no user ID was passed and the object is not currently configured with one.

Returns The access token for the user.

Return type *unicode*

authenticate_instance (*enterprise*=None)

Get an access token for a Box Developer Edition enterprise.

Parameters **enterprise** (*unicode* or *None*) – The ID of the Box Developer Edition enterprise.

Optional if the value was already given to `__init__`, otherwise required.

Raises *ValueError* if *None* was passed for the enterprise ID here and in `__init__`, or if the non-*None* value passed here does not match the non-*None* value passed to `__init__`.

Returns The access token for the enterprise which can provision/deprovision app users.

Return type *unicode*

authenticate_user (*user*=None)

Get an access token for a User.

May be one of this application's created App User. Depending on the configured User Access Level, may also be any other App User or Managed User in the enterprise.

<<https://docs.box.com/docs/configuring-box-platform#section-3-enabling-app-auth-and-app-users>>

<<https://docs.box.com/docs/authentication#section-choosing-an-authentication-type>>

Parameters `user` (*unicode* or `User`) – (optional) The user to authenticate, expressed as a Box User ID or as a `User` instance.

If not given, then the most recently provided user ID, if available, will be used.

Raises `ValueError` if no user ID was passed and the object is not currently configured with one.

Returns The access token for the user.

Return type *unicode*

classmethod `from_settings_dictionary` (*settings_dictionary*, ***kwargs*)

Create an auth instance as defined by the given settings dictionary.

The dictionary should have the structure of the JSON file downloaded from the Box Developer Console.

Parameters `settings_dictionary` (*dict*) – Dictionary containing settings for configuring app auth.

Returns Auth instance configured as specified by the config dictionary.

Return type *JWTAuth*

classmethod `from_settings_file` (*settings_file_sys_path*, ***kwargs*)

Create an auth instance as defined by a JSON file downloaded from the Box Developer Console. See <https://developer.box.com/v2.0/docs/authentication-with-jwt> for more information.

Parameters `settings_file_sys_path` (*unicode*) – Path to the JSON file containing the configuration.

Returns Auth instance configured as specified by the JSON file.

Return type *JWTAuth*

boxsdk.auth.oauth2 module

```
class boxsdk.auth.oauth2.OAuth2 (client_id, client_secret, store_tokens=None,
                                box_device_id=u'0', box_device_name=u'', access_token=None,
                                refresh_token=None, session=None,
                                refresh_lock=None)
```

Bases: `object`

Responsible for handling OAuth2 for the Box API. Can authenticate and refresh tokens.

Can be used as a closeable resource, similar to a file. When `close()` is called, the current tokens are revoked, and the object is put into a state where it can no longer request new tokens. This action can also be managed with the `closing()` context manager method.

access_token

Get the current access token.

Returns current access token

Return type *unicode*

api_config

Return type `API`

authenticate (*auth_code*)

Send token request and return the `access_token`, `refresh_token` tuple. The access token and refresh token will be stored by calling the `store_tokens` callback if provided in `__init__`.

Parameters `auth_code` (*unicode* or *None*) – An authorization code you retrieved in the first leg of OAuth 2.

Returns (`access_token`, `refresh_token`)

Return type (*unicode*, *unicode*)

close (`revoke=True`)

Close the auth object.

After this action is performed, the auth object can no longer request new tokens.

This method may be called even if the auth object is already closed.

Parameters `revoke` (*bool*) – (optional) Whether the current tokens should be revoked, via `revoke()`. Defaults to *True* as a security precaution, so that the tokens aren't usable by any adversaries after you are done with them. Note that the revoke isn't guaranteed to succeed (the network connection might fail, or the API call might respond with a non-200 HTTP response), so this isn't a fool-proof security mechanism. If the revoke fails, an exception is raised. The auth object is still considered to be closed, even if the revoke fails.

closed

True iff the auth object has been closed.

When in the closed state, it can no longer request new tokens.

Return type *bool*

closing (***kwds*)

Context manager to close the auth object on exit.

The behavior is somewhat similar to `contextlib.closing(self)`, but has some differences.

The context manager cannot be entered if the auth object is closed.

If a non-*Exception* (e.g. *KeyboardInterrupt*) is caught from the block, this context manager prioritizes re-raising the exception as fast as possible, without blocking. Thus, in this case, the tokens will not be revoked, even if `revoke=True` was passed to this method.

If exceptions are raised both from the block and from `close()`, the exception from the block will be reraised, and the exception from `close()` will be swallowed. The assumption is that the exception from the block is more relevant to the client, especially since the revoke can fail if the network is unavailable.

Parameters ***close_kwargs* – Keyword arguments to pass to `close()`.

get_authorization_url (`redirect_url`)

Get the authorization url based on the client id and the redirect url passed in

Parameters `redirect_url` (*unicode* or *None*) – An HTTPS URI or custom URL scheme where the response will be redirected. Optional if the redirect URI is registered with Box already.

Returns A tuple of the URL of Box's authorization page and the CSRF token. This is the URL that your application should forward the user to in first leg of OAuth 2.

Return type (*unicode*, *unicode*)

refresh (`access_token_to_refresh`)

Refresh the access token and the refresh token and return the `access_token`, `refresh_token` tuple. The access token and refresh token will be stored by calling the `store_tokens` callback if provided in `__init__`.

Parameters `access_token_to_refresh` (*unicode* or *None*) – The expired access token, which needs to be refreshed. Pass *None* if you don't have the access token.

Returns Tuple containing the new access token and refresh token. The refresh token may be *None*, if the authentication scheme doesn't use one, or keeps it hidden from this client.

Return type *tuple of (unicode, (unicode or None))*

revoke ()

Revoke the authorization for the current access/refresh token pair.

send_token_request (data, access_token, expect_refresh_token=True)

Send the request to acquire or refresh an access token, and store the tokens.

Parameters

- **data (dict)** – Dictionary containing the request parameters as specified by the Box API.
- **access_token (unicode or None)** – The current access token.

Returns The access token and refresh token.

Return type *(unicode, unicode)*

class `boxsdk.auth.oauth2.TokenResponse` (*response_object=None, **kwargs*)

Bases: `boxsdk.object.base_api_json_object.BaseAPIJSONObject`

Represents the response for a token request.

class `boxsdk.auth.oauth2.TokenScope`

Bases: `boxsdk.util.text_enum.TextEnum`

Scopes used for a downscope token request.

See <https://developer.box.com/reference#token-exchange>.

`ITEM_DELETE = u'item_delete'`

`ITEM_DOWNLOAD = u'item_download'`

`ITEM_PREVIEW = u'item_preview'`

`ITEM_READ = u'item_read'`

`ITEM_READWRITE = u'item_readwrite'`

`ITEM_SHARE = u'item_share'`

`ITEM_UPLOAD = u'item_upload'`

boxsdk.auth.redis_managed_jwt_auth module

class `boxsdk.auth.redis_managed_jwt_auth.RedisManagedJWTAuth` (*unique_id=UUID('f2676bfa-7b04-43f9-b6b7-b671566598d5')*, *re-*, *dis_server=None*, **args, **kwargs*)

Bases: `boxsdk.auth.redis_managed_oauth2.RedisManagedOAuth2Mixin`, `boxsdk.auth.jwt_auth.JWTAuth`

JWT Auth subclass which uses Redis to manage access tokens.

boxsdk.auth.redis_managed_oauth2 module

```
class boxsdk.auth.redis_managed_oauth2.RedisManagedOAuth2 (unique_id=UUID('f2676bfa-7b04-43f9-b6b7-b671566598d5'),  
                                                    redis_server=None,  
                                                    *args, **kwargs)
```

Bases: *boxsdk.auth.redis_managed_oauth2.RedisManagedOAuth2Mixin*

OAuth2 subclass which uses Redis to manage tokens.

```
class boxsdk.auth.redis_managed_oauth2.RedisManagedOAuth2Mixin (unique_id=UUID('f2676bfa-7b04-43f9-b6b7-b671566598d5'),  
                                                    re-  
dis_server=None,  
                                                    *args,  
                                                    **kwargs)
```

Bases: *boxsdk.auth.oauth2.OAuth2*

Box SDK OAuth2 subclass. Allows for storing auth tokens in redis.

unique_id

Get the unique ID used by this auth instance. Other instances can share tokens with this instance if they share the ID with this instance.

boxsdk.auth.remote_managed_oauth2 module

```
class boxsdk.auth.remote_managed_oauth2.RemoteOAuth2 (retrieve_access_token=None,  
                                                    *args, **kwargs)
```

Bases: *boxsdk.auth.remote_managed_oauth2.RemoteOAuth2Mixin*

Box SDK OAuth2 subclass. Allows for storing auth tokens remotely. The `retrieve_access_token` callback should return an access token, presumably acquired from a remote server on which your auth credentials are available.

```
class boxsdk.auth.remote_managed_oauth2.RemoteOAuth2Mixin (retrieve_access_token=None,  
                                                    *args, **kwargs)
```

Bases: *boxsdk.auth.oauth2.OAuth2*

Box SDK OAuth2 mixin. Allows for storing auth tokens remotely.

Module contents

5.1.1.2 boxsdk.client package

Submodules

boxsdk.client.client module

```
class boxsdk.client.client.Client (oauth, session=None)
```

Bases: *boxsdk.object.cloneable.Cloneable*

auth

Get the OAuth2 instance the client is using for auth to Box.

Return type OAuth2

authorized_session_class

alias of `boxsdk.session.session.AuthorizedSession`

clone (*session=None*)

Base class override.

collaboration (*collab_id*)

Initialize a Collaboration object, whose box id is *collab_id*.

Parameters **collab_id** (*unicode*) – The box id of the Collaboration object.

Returns A Collaboration object with the given group id.

Return type Collaboration

collaboration_whitelist ()

Initializes a CollaborationWhitelist object.

Returns A CollaborationWhitelist object.

Type CollaborationWhitelist.

collaboration_whitelist_entry (*entry_id*)

Initialize a CollaborationWhitelistEntry object, whose box id is *entry_id*.

Parameters **entry_id** (*unicode*) – The box id of the CollaborationWhitelistEntry object.

Returns A CollaborationWhitelistEntry object with the given entry id.

Return type CollaborationWhitelistEntry

collaboration_whitelist_exempt_target (*exemption_id*)

Initialize a CollaborationWhitelistExemptTarget object, whose box id is *target_id*.

Parameters **exemption_id** (*unicode*) – The box id of the CollaborationWhitelistExemptTarget object.

Returns A CollaborationWhitelistExemptTarget object with the given target id.

Return type CollaborationWhitelistExemptTarget

collection (*collection_id*)

Initialize a Collection object, whose box ID is *collection_id*.

Parameters **collection_id** (*unicode*) – The box id of the Collection object.

Returns A Collection object with the given collection ID.

Return type Collection

collections

Get a list of collections for the current user.

Parameters

- **limit** (*int* or *None*) – The maximum number of users to return. If not specified, the Box API will determine an appropriate limit.
- **offset** (*int*) – The user index at which to start the response.

comment (*comment_id*)

Initialize a Comment object, whose Box ID is *comment_id*.

Parameters **comment_id** (*unicode*) – The Box ID of the Comment object.

Returns A `Comment` object with the given comment ID.

Return type `Comment`

create_group

Create a group with the given name.

Parameters

- **name** (*unicode*) – The name of the group.
- **provenance** (*unicode* or `None`) – Used to track the external source where the group is coming from.
- **external_sync_identifier** (*unicode* or `None`) – Used as a group identifier for groups coming from an external source.
- **description** (*unicode* or `None`) – Description of the group.
- **invitability_level** (*unicode*) – Specifies who can invite this group to folders.
- **member_viewability_level** (*unicode*) – Specifies who can view the members of this group.
- **fields** (*Iterable* of *unicode*) – List of fields to request on the `Group` objects.

Returns The newly created `Group`.

Return type `Group`

Raises `BoxAPIException` if current user doesn't have permissions to create a group.

create_legal_hold_policy

Create a legal hold policy.

Parameters

- **policy_name** (*unicode*) – The legal hold policy's display name.
- **description** (*unicode* or `None`) – The description of the legal hold policy.
- **filter_starting_at** (*unicode* or `None`) – The start time filter for legal hold policy
- **filter_ending_at** (*unicode* or `None`) – The end time filter for legal hold policy
- **is_ongoing** (*bool* or `None`) – After initialization, Assignments under this Policy will continue applying to files based on events, indefinitely.

Returns A legal hold policy object

Return type :class:`LegalHoldPolicy`

create_metadata_template

Create a new metadata template. By default, only the display name and fields are required; the template key will be automatically generated based on the display name and the template will be created in the enterprise scope.

Parameters

- **display_name** (*unicode*) – The human-readable name of the template
- **fields** (*Iterable* of `MetadataField`) – The metadata fields for the template.
- **template_key** (*unicode*) – An optional key for the template. If one is not provided, it will be derived from the display name.
- **hidden** (*bool*) – Whether the template should be hidden in the UI

- **scope** (*unicode*) – The scope the template should be created in

create_retention_policy

Create a retention policy for the given enterprise.

Parameters

- **policy_name** (*unicode*) – The name of the retention policy.
- **retention_length** (*int* or *float('inf')*) – The amount of time in days to apply the retention policy to the selected content. The `retention_length` should be set to `float('inf')` for indefinite policies.
- **disposition_action** (*unicode*) – For *finite* policy can be set to *permanently delete* or *remove retention*. For *indefinite* policy this must be set to *remove_retention*
- **can_owner_extend_retention** (*boolean* or *None*) – The owner of a file will be allowed to extend the retention if set to true.
- **are_owners_notified** (*boolean* or *None*) – The owner or co-owner will get notified when a file is nearing expiration.
- **custom_notification_recipients** (*list* of `User` objects) – A custom list of user mini objects that should be notified when a file is nearing expiration.

Returns The newly created Retention Policy

Return type `RetentionPolicy`

create_terms_of_service (*status, tos_type, text*)

Create a terms of service.

Parameters

- **status** (`TermsOfServiceStatus`) – The status of the terms of service.
- **tos_type** (`TermsOfServiceType`) – The type of the terms of service. Can be set to *managed* or *external*.
- **text** (*unicode*) – The message of the terms of service.

Returns A newly created `TermsOfService` object

Return type `TermsOfService`

create_user

Create a new user. Can only be used if the current user is an enterprise admin, or the current authorization scope is a Box developer edition instance.

Parameters

- **name** (*unicode*) – The user's display name.
- **login** (*unicode* or *None*) – The user's email address. Required for an enterprise user, but *None* for an app user.
- **user_attributes** – Additional attributes for the user. See the documentation at <https://box-content.readme.io/#create-an-enterprise-user> for enterprise users or <https://box-content.readme.io/docs/app-users> for app users.

create_webhook

Create a webhook on the given file.

Parameters

- **target** (`File` or `:class'Folder'`) – Either a `File` or `Folder` to assign a webhook to.

- **triggers** (*list of unicode*) – Event types that trigger notifications for the target.
- **address** (*unicode*) – The url to send the notification to.

Returns A Webhook object with the given entry ID.

Return type Webhook

device_pinner (*device_pin_id*)

Initialize a DevicePinner object, whose box id is device_pin_id.

Parameters **device_pin_id** (*unicode*) – The assignment ID of the DevicePin object.

Returns A DevicePinner object with the given entry ID.

Return type DevicePinner

device_pinner (*enterprise=None, direction=None, limit=None, marker=None, fields=None*)

Returns all of the device pins for the given enterprise.

Parameters

- **enterprise** (*:class`Enterprise` or None*) – The enterprise to retrieve device pinner for, defaulting to the current enterprise.
- **direction** (*unicode or None*) – The sorting direction. Set to *ASC* or *DESC*
- **limit** (*int or None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode or None*) – The paging marker to start paging from.
- **fields** (*Iterable of unicode*) – List of fields to request.

Returns An iterator of the entries in the device pins.

Return type BoxObjectCollection

downscope_token

Generate a downscoped token for the provided file or folder with the provided scopes.

Parameters

- **scope** – The scope(s) to apply to the resulting token.
- **item** (*Item*) – (Optional) The file or folder to get a downscoped token for. If None, the resulting token will not be scoped down to just a single item.
- **additional_data** (*dict*) – (Optional) Key value pairs which can be used to add/update the default data values in the request.

Returns The response for the downscope token request.

Return type TokenResponse

email_alias (*alias_id*)

Initialize a :class: *EmailAlias* object, whose box id is alias_id.

Parameters **alias_id** (*unicode*) – The aliad id of the EmailAlias object.

Returns A EmailAlias object with the given entry ID.

Return type EmailAlias

enterprise (*enterprise_id*)

Initialize a Enterprise object, whose box ID is enterprise_id.

Parameters **enterprise_id** (*unicode*) – The box id of the Enterprise object.

Returns A `Enterprise` object with the given enterprise ID.

Return type `Enterprise`

events ()

Get an events object that can get the latest events from Box or set up a long polling event subscription.

file (*file_id*)

Initialize a `File` object, whose box id is *file_id*.

Parameters **file_id** (*unicode*) – The box id of the `File` object.

Returns A `File` object with the given file id.

Return type `File`

file_version (*version_id*)

Initialize a `FileVersion` object, whose box id is *version_id*.

Parameters **version_id** (*unicode*) – The box id of the `FileVersion` object.

Returns A `FileVersion` object with the given file version id.

Return type `FileVersion`

file_version_retention (*retention_id*)

Initialize a `FileVersionRetention` object, whose box id is *retention_id*.

Parameters **retention_id** (*unicode*) – The box ID of the `FileVersionRetention` object.

Returns A `FileVersionRetention` object with the given retention ID.

Return type `FileVersionRetention`

folder (*folder_id*)

Initialize a `Folder` object, whose box id is *folder_id*.

Parameters **folder_id** (*unicode*) – The box id of the `Folder` object. Can use '0' to get the root folder on Box.

Returns A `Folder` object with the given folder id.

Return type `Folder`

get_current_enterprise

Get the enterprise of the current user.

Returns The authenticated user's enterprise

Return type `Enterprise`

get_file_version_retentions

Get the entries in the file version retention.

Parameters

- **target_file** (`File` or `None`) – The file to filter the file version.
- **file_version** (`FileVersion` or `None`) – A file version to filter the file version retentions by.
- **policy** (`RetentionPolicy` or `None`) – A policy to filter the file version retentions by.
- **disposition_action** (*unicode* or `None`) – Can be set to *permanently_delete* or *remove_retention*.

- **disposition_before** (*unicode* or None) – A date time filter for disposition action.
- **disposition_after** (*unicode* or None) – A date time filter for disposition action.
- **limit** (*int* or None) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or None) – The paging marker to start paging from
- **fields** (*Iterable* of *unicode*) – List of fields to request

Returns An iterator of the entries in the file version retention.

Return type `BoxObjectCollection`

get_groups

Get a list of all groups for the current user.

Parameters

- **name** (*unicode* or None) – Filter on the name of the groups to return.
- **limit** (*int* or None) – The maximum number of groups to return. If not specified, the Box API will determine an appropriate limit.
- **offset** (*int* or None.) – The group index at which to start the response.
- **fields** (*Iterable* of *unicode*) – List of fields to request on the `Group` objects.

Returns The collection of all groups.

Return type *Iterable* of `Group`

get_legal_hold_policies

Get the entries in the legal hold policy using limit-offset paging.

Parameters

- **policy_name** (*unicode* or None) – The name of the legal hold policy case insensitive to search for
- **limit** (*int* or None) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or None) – The paging marker to start paging from.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the legal hold policy

Return type `BoxObjectCollection`

get_metadata_templates

Get all metadata templates for a given scope. By default, retrieves all metadata templates for the current enterprise.

Parameters

- **scope** (*unicode*) – The scope to retrieve templates for
- **marker** (*unicode* or None) – The paging marker to start paging from.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns The collection of metadata templates for the given scope

Return type `BoxObjectCollection`

get_pending_collaborations

Get the entries in the pending collaborations using limit-offset paging.

Parameters

- **limit** (*int* or *None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **offset** (*int* or *None*) – The offset of the item at which to begin the response.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the pending collaborations

Return type `BoxObjectCollection`

get_recent_items

Get the user's recently accessed items.

Param **limit** The maximum number of items to return. If **limit** is set to *None*, then the default limit (returned by `Box` in the response) is used. See <https://developer.box.com/reference#get-recent-items> for default.

Type **limit** *int* or *None*

Parameters

- **marker** (*str* or *None*) – The index at which to start returning items.
- **fields** (*Iterable* of *unicode*) – List of fields to request on the file or folder which the *RecentItem* references.
- ****collection_kwargs** – Keyword arguments passed to *MarkerBasedObjectCollection*.

Returns An iterator on the user's recent items

Return type `MarkerBasedObjectCollection`

get_retention_policies

Get the entries in the retention policy using marker-based paging.

Parameters

- **policy_name** (*unicode* or *None*) – The name of the retention policy.
- **policy_type** (*unicode* or *None*) – Set to either *finite* or *indefinite*
- **user** (*User* or *None*) – A user to filter the retention policies.
- **limit** (*int* or *None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or *None*) – The paging marker to start paging from
- **fields** (*Iterable* of *unicode*) – List of fields to request

Returns An iterator of the entries in the retention policy

Return type `BoxObjectCollection`

get_shared_item

Get information about a Box shared link. <https://box-content.readme.io/reference#get-a-shared-item>

Parameters

- **shared_link** (*unicode*) – The shared link.

- **password** (*unicode*) – The password for the shared link.

Returns The item referred to by the shared link.

Return type `Item`

Raises `BoxAPIException` if current user doesn't have permissions to view the shared link.

get_storage_policies (*limit=None, marker=None, fields=None*)

Get the entries in the storage policy using marker-based paging.

Parameters

- **limit** (*int* or `None`) – The maximum number of items to return.
- **marker** (*unicode* or `None`) – The paging marker to start returning items from when using marker-based paging.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns Returns the storage policies available for the current enterprise.

Return type `BoxObjectCollection`

get_terms_of_services (*tos_type=None, limit=None, fields=None*)

Get the entries in the terms of service using limit-offset paging.

Parameters

- **tos_type** (`TermsOfServiceType`) – Can be set to *managed* or *external* for the type of terms of service.
- **fields** (*Iterable* of *unicode*) – List of fields to request

Param `limit` The maximum number of items to return. If `limit` is set to `None`, then the default limit (returned by Box in the response) is used.

Type `limit` *int* or `None`

Returns An iterator of the entries in the terms of service

Return type `BoxObjectCollection`

get_url (*endpoint, *args*)

Return the URL for the given Box API endpoint.

Parameters

- **endpoint** (*url*) – The name of the endpoint.
- **args** (*Iterable*) – Additional parts of the endpoint URL.

Return type *unicode*

get_webhooks

Get all webhooks in an enterprise.

Parameters

- **limit** (*int* or `None`) – The maximum number of entries to return.
- **marker** (*unicode* or `None`) – The position marker at which to begin the response.
- **fields** (*Iterable* of *unicode*) – List of fields to request on the file or folder which the *RecentItem* references.

Returns An iterator of the entries in the webhook

Return type `BoxObjectCollection`

group (*group_id*)

Initialize a Group object, whose box id is *group_id*.

Parameters **group_id** (*unicode*) – The box id of the Group object.

Returns A Group object with the given group id.

Return type Group

group_membership (*group_membership_id*)

Initialize a GroupMembership object, whose box id is *group_membership_id*.

Parameters **group_membership_id** (*unicode*) – The box id of the GroupMembership object.

Returns A GroupMembership object with the given membership id.

Return type GroupMembership

invite (*invite_id*)

Initialize a Invite object, whose box id is *invite_id*.

Parameters **invite_id** (*unicode*) – The invite ID of the Invite object.

Returns A Invite object with the given entry ID.

Return type Invite

legal_hold (*hold_id*)

Initialize a LegalHold object, whose box id is *policy_id*.

Parameters **hold_id** (*unicode*) – The legal hold ID of the LegalHold object.

Returns A LegalHold object with the given entry ID.

Return type LegalHold

legal_hold_policy (*policy_id*)

Initialize a LegalHoldPolicy object, whose box id is *policy_id*.

Parameters **policy_id** (*unicode*) – The box ID of the LegalHoldPolicy object.

Returns A LegalHoldPolicy object with the given entry ID.

Return type LegalHoldPolicy

legal_hold_policy_assignment (*policy_assignment_id*)

Initialize a LegalHoldPolicyAssignment object, whose box id is *policy_assignment_id*.

Parameters **policy_assignment_id** (*unicode*) – The assignment ID of the LegalHoldPolicyAssignment object.

Returns A LegalHoldPolicyAssignment object with the given entry ID.

Return type LegalHoldPolicyAssignment

make_request

Make an authenticated request to the Box API.

Parameters

- **method** (*unicode*) – The HTTP verb to use for the request.
- **url** (*unicode*) – The URL for the request.

Returns The network response for the given request.

Return type BoxResponse

Raises BoxAPIException

metadata_cascade_policy (*policy_id*)

Initializes a MetadataCascadePolicy object with the given policy ID.

Parameters **policy_id** (*unicode*) – The ID of the cascade policy object

Returns The cascade policy object

Return type MetadataCascadePolicy

metadata_template (*scope, template_key*)

Initialize a MetadataTemplate object with the given scope and template key.

Parameters

- **scope** (*unicode*) – The scope of the metadata template, e.g. ‘enterprise’ or ‘global’
- **template_key** (*unicode*) – The key of the metadata template

Returns The metadata template object

Return type MetadataTemplate

metadata_template_by_id (*template_id*)

Retrieves a metadata template by ID

Parameters **template_id** (*unicode*) – The ID of the template object

Returns The metadata template with data populated from the API

Return type MetadataTemplate

retention_policy (*retention_id*)

Initialize a RetentionPolicy object, whose box id is retention_id.

Parameters **retention_id** (*unicode*) – The box ID of the RetentionPolicy object.

Returns A RetentionPolicy object with the given entry ID.

Return type RetentionPolicy

retention_policy_assignment (*assignment_id*)

Initialize a RetentionPolicyAssignment object, whose box id is assignment_id.

Parameters **assignment_id** (*unicode*) – The box ID of the RetentionPolicyAssignment object.

Returns A RetentionPolicyAssignment object with the given assignment ID.

Return type RetentionPolicyAssignment

root_folder ()

Returns a user’s root folder object.

search

Get a Search object that can be used for searching Box content.

Returns The Search object

Return type Search

session

Get the BoxSession instance the client is using.

Return type BoxSession

storage_policy (*policy_id*)

Initialize a `StoragePolicy` object, whose box id is `policy_id`.

Parameters `policy_id` (*unicode*) – The box ID of the `StoragePolicy` object.

Returns A `StoragePolicy` object with the given entry ID.

Return type `StoragePolicy`

storage_policy_assignment (*assignment_id*)

Initialize a `StoragePolicyAssignment` object, whose box id is `assignment_id`.

Parameters `assignment_id` (*unicode*) – The box ID of the `StoragePolicyAssignment` object.

Returns A `StoragePolicyAssignment` object with the given entry ID.

Return type `StoragePolicyAssignment`

task (*task_id*)

Initialize a `Task` object, whose box id is `task_id`.

Parameters `task_id` (*unicode*) – The box ID of the `Task` object.

Returns A `Task` object with the given entry ID.

Return type `Task`

task_assignment (*assignment_id*)

Initialize a `TaskAssignment` object, whose box id is `assignment_id`.

Parameters `assignment_id` (*unicode*) – The box ID of the `TaskAssignment` object.

Returns A `TaskAssignment` object with the given entry ID.

Return type `TaskAssignment`

terms_of_service (*tos_id*)

Initialize a `TermsOfService` object, whose box id is `tos_id`.

Parameters `tos_id` (*unicode*) – The box id of the `TermsOfService` object.

Returns A `TermsOfService` object with the given terms of service id.

Return type `TermsOfService`

terms_of_service_user_status (*tos_user_status_id*)

Initialize a `TermsOfServiceUserStatus` object, whose box id is `tos_user_status_id`.

Parameters `tos_user_status_id` – The box id of the `TermsOfServiceUserStatus` object.

Returns A `TermsOfServiceUserStatus` object with the given terms of service user status id.

Return type `TermsOfServiceUserStatus`

translator

The translator used for translating Box API JSON responses into `BaseAPIJSONObject` smart objects.

Return type `Translator`

trash ()

Initialize a `Trash` object.

Returns A `Trash` object.

Return type `Trash`

unauthorized_session_class

alias of `boxsdk.session.session.Session`

upload_session (*session_id*)

Initialize a `UploadSession` object, whose box id is `session_id`.

Parameters `session_id` (*unicode*) – The box id of the `UploadSession` object.

Returns A `UploadSession` object with the given session id.

Return type `:class'UploadSession'`

user (*user_id=u'me'*)

Initialize a `User` object, whose box id is `user_id`.

Parameters `user_id` (*unicode*) – The user id of the `User` object. Can use 'me' to get the `User` for the current/authenticated user.

Returns A `User` object with the given id.

Return type `User`

users

Get a list of all users for the Enterprise along with their `user_id`, `public_name`, and `login`.

Parameters

- **limit** (*int* or `None`) – The maximum number of users to return. If not specified, the Box API will determine an appropriate limit.
- **offset** (*int*) – The user index at which to start the response.
- **filter_term** (*unicode* or `None`) – Filters the results to only users starting with the `filter_term` in either the name or the login.
- **user_type** (*unicode* or `None`) – Filters the results to only users of the given type: 'managed', 'external', or 'all'.
- **fields** (*Iterable of unicode*) – List of fields to request on the `User` objects.

Returns The list of all users in the enterprise.

Return type *list of User*

Returns An iterator on the user's recent items

Return type `MarkerBasedObjectCollection`

web_link (*web_link_id*)

Initialize a `:class: WebLink` object, whose box id is `web_link_id`. `:param web_link_id:`

The box ID of the `WebLink` object.

Returns A `WebLink` object with the given entry ID.

Return type `WebLink`

webhook (*webhook_id*)

Initialize a `Webhook` object, whose box id is `webhook_id`.

Parameters `webhook_id` (*unicode*) – The box ID of the `:class: Webhook` object.

Returns A `Webhook` object with the given entry ID.

Return type `Webhook`

boxsdk.client.developer_token_client module

```
class boxsdk.client.developer_token_client.DeveloperTokenClient (oauth=None,
                                                             ses-
                                                             sion=None)
```

Bases: *boxsdk.client.client.Client*

Box client subclass which authorizes with a developer token.

boxsdk.client.development_client module

```
class boxsdk.client.development_client.DevelopmentClient (*args, **kwargs)
  Bases: boxsdk.client.logging_client.LoggingClient, boxsdk.client.
         developer_token_client.DeveloperTokenClient
```

Client subclass that uses developer token auth and logs requests and responses. Great for use in development!

boxsdk.client.logging_client module

```
class boxsdk.client.logging_client.LoggingClient (*args, **kwargs)
  Bases: boxsdk.client.client.Client
```

Box client subclass which logs requests and responses.

Module contents

5.1.1.3 boxsdk.network package

Submodules

boxsdk.network.default_network module

```
class boxsdk.network.default_network.DefaultNetwork
  Bases: boxsdk.network.network_interface.Network
```

Implementats the network interface using the requests library.

```
EXCEPTION_FORMAT = u'\x1b[31mRequest "%(method)s %(url)s" failed with %(exc_type_name)
```

```
LOGGER_NAME = u'boxsdk.network'
```

```
REQUEST_FORMAT = u'\x1b[36m%(method)s %(url)s %(request_kwargs)s\x1b[0m'
```

```
network_response_constructor
```

Baseclass override.

A callable that accepts *request_response* and *access_token_used* keyword arguments for the *DefaultNetworkResponse* constructor, and returns an instance of *DefaultNetworkResponse*.

```
request (method, url, access_token, **kwargs)
```

Base class override.

Make a network request using a requests.Session. Logs information about an API request and response.

Also logs exceptions before re-raising them.

The logging of the response is deferred to *DefaultNetworkResponse*. See that class's docstring for more info.

retry_after (*delay*, *request_method*, **args*, ***kwargs*)

Base class override. Retry after sleeping for *delay* seconds.

class boxsdk.network.default_network.**DefaultNetworkResponse** (*request_response*,
access_token_used)

Bases: *boxsdk.network.network_interface.NetworkResponse*

Implementation of the network interface using the requests library.

`requests.Response` has a few mutually-exclusive ways to read the content of the response:

- With the *Response.raw* attribute, an *io.IOBase* instance returned from the *urllib3* library, that can be read once in chunks from beginning to end.
- With *Response.iter_content()* and other *iter_** generators, which also can only be read once and advance the *Response.raw* IO stream.
- With the *Response.content* property (and other attributes such as *Response.text* and *Response.json()*), which reads and caches the remaining response content in memory. Can be accessed multiple times, but cannot be safely accessed if any of the previous mechanisms have been used at all. And if this property has already been accessed, then the other mechanisms will have been exhausted, and attempting to read from them will make it appear like the response content is empty.

Any of these mechanisms may be used to read any response, regardless of whether *stream=True* or *stream=False* on the request.

If the caller uses *Response.content*, then it is safe for *DefaultNetwork* to also access it. But if the caller uses any of the streaming mechanisms, then it is not safe for *DefaultNetwork* to ever read any of the content. Thus, the options available are:

- Never log the content of a response.
- Make logging part of the *Network* interface, and add an optional keyword argument that callers can use to specify when it is unsafe to log the content of a response.
- Defer logging until it is possible to auto-detect which mechanism is being used.

This class implements the latter option. Instead of response logging taking place in *DefaultNetwork.request()*, it takes place in this *DefaultNetworkResponse* class, as soon as the caller starts reading the content. If *content* or *json()* are accessed, then the response will be logged with its content. Whereas if *response_as_stream* or *request_response* are accessed, then the response will be logged with a placeholder for the actual content.

Because most SDK methods immediately read the content on success, but not on errors (the SDK may retry the request based on just the status code), this class will log its content if it represents a failed request.

```
ERROR_RESPONSE_FORMAT = u'\x1b[31m"%(method)s %(url)s" %(status_code)s %(content_length)s'
```

```
STREAM_CONTENT_NOT_LOGGED = u'<File download contents unavailable for logging>'
```

```
SUCCESSFUL_RESPONSE_FORMAT = u'\x1b[32m"%(method)s %(url)s" %(status_code)s %(content_length)s'
```

access_token_used

Base class override.

content

Base class override.

headers

Base class override.

json()

Base class override.

log (*can_safely_log_content=False*)

Logs information about the Box API response.

Will only execute once. Subsequent calls will be no-ops. This is partially because we only want to log responses once, and partially because this is necessary to prevent this method from infinite recursing with its use of the *content* property.

Parameters *can_safely_log_content* (*bool*) – (optional) *True* if the caller is accessing the *content* property, *False* otherwise.

As stated in the class docstring, it is unsafe for this logging method to access *content* unless the caller is also accessing it.

Defaults to *False*.

ok

Base class override.

request_response

The response returned from the Requests library.

Return type *Response*

response_as_stream

Base class override.

status_code

Base class override.

boxsdk.network.network_interface module

class boxsdk.network.network_interface.**Network**

Bases: object

Abstract base class specifying the interface of the network layer.

network_response_constructor

The constructor to use for creating *NetworkResponse* instances.

This is not implemented by default, and is not a required part of the interface.

It is recommended that implementations of *request()* call this to construct their responses, rather than hard-coding the construction. That way, subclasses of the implementation can easily extend the construction of *NetworkResponse* instances, by overriding this property, instead of needing to override *request()*.

Returns A callable that returns an instance of *NetworkResponse*. Most commonly, this will be a subclass of *NetworkResponse*.

Return type *type* or *callable*

request (*method*, *url*, *access_token*, ***kwargs*)

Make a network request to the given url with the given method.

Parameters

- **method** (*unicode*) – The HTTP verb that should be used to make the request.
- **url** (*unicode*) – The URL for the request.
- **access_token** (*unicode*) – The OAuth2 access token used to authorize the request.

Return type *NetworkResponse*

retry_after (*delay*, *request_method*, *args, **kwargs)

Make a network request after a given delay.

Parameters

- **delay** (*float*) – How long until the request should be executed.
- **request_method** (*callable*) – A callable that will execute the request.

Return type *NetworkResponse*

class boxsdk.network.network_interface.**NetworkResponse**

Bases: object

Abstract base class specifying the interface for a network response.

access_token_used

Return the access token used to make the request.

Return type *unicode*

content

Return the content of the response body.

Return type varies

headers

Return the response headers.

Return type *dict*

json()

Return the parsed JSON response.

Return type *dict* or *list* or *str* or *int* or *float*

ok

Return whether or not the request was successful.

Return type *bool*

response_as_stream

Return a stream containing the raw network response.

Return type *stream*

status_code

Return the HTTP status code of the response.

Return type *int*

Module contents

5.1.1.4 boxsdk.object package

Submodules

boxsdk.object.api_json_object module

class boxsdk.object.api_json_object.**APIJSONObject** (*response_object=None*, **kwargs)

Bases: *boxsdk.object.base_api_json_object.BaseAPIJSONObject*, *_abcoll.Mapping*

Class representing objects that are not part of the REST API.

class `boxsdk.object.api_json_object.APIJSONObjectMeta` (*name, bases, attrs*)
 Bases: `boxsdk.object.base_api_json_object.BaseAPIJSONObjectMeta`, `abc.ABCMeta`
 Avoid conflicting metaclass definitions for `APIJSONObject`. <http://code.activestate.com/recipes/204197-solving-the-metaclass-conflict/>

boxsdk.object.base_api_json_object module

class `boxsdk.object.base_api_json_object.BaseAPIJSONObject` (*response_object=None, **kwargs*)

Bases: `object`

Base class containing basic logic shared between true REST objects and other objects (such as an Event)

object_type

Return the Box type for the object.

Return type *unicode*

response_object

Return the JSON object representing the object returned from a Box API request.

Return type *dict*

classmethod untranslated_fields()

The fields that should not be translated on this object.

Return type *tuple*

class `boxsdk.object.base_api_json_object.BaseAPIJSONObjectMeta` (*name, bases, attrs*)

Bases: `type`

Metaclass for Box API objects.

Registers classes with the default translator, so that API responses can be translated to the correct type. This relies on the `_item_type` field, which must be defined in the class's namespace dict (and must be re-defined, in order to register a custom subclass), to match the 'type' field of the response json. But the type-class mapping will only be registered if the module of the class is imported.

For example, events returned from the API look like

```
{'type': 'event', ...}
```

so a class for that type could be created and registered with the default translator like this:

```
class Event(BaseAPIJSONObject):
    _item_type = 'event'
    ...
```

NOTE: The default translator registration functionality is a private implementation detail of the SDK, to make it easy to register the default API object classes with the default translator. For convenience and backwards-compatibility, developers are allowed to re-define the `_item_type` field in their own custom subclasses in order to take advantage of this functionality, but are encouraged not to. Since this is a private implementation detail, it may change or be removed in any major or minor release. Additionally, it has the usual hazards of mutable global state. The supported and recommended ways for registering custom subclasses are:

- Constructing a new `Translator`, calling `Translator.register()` as necessary, and passing it to the `BoxSession` constructor.
- Calling `session.translator.register()` on an existing `BoxSession`.

- Calling `client.translator.register()` on an existing `Client`.

boxsdk.object.base_endpoint module

class `boxsdk.object.base_endpoint.BaseEndpoint` (*session*, ***kwargs*)

Bases: `boxsdk.object.cloneable.Cloneable`

A Box API endpoint.

clone (*session=None*)

Returns a copy of this cloneable object using the specified session.

Parameters **session** (`BoxSession`) – The Box session used to make requests.

get_url (*endpoint*, **args*)

Return the URL used to access the endpoint.

Parameters

- **endpoint** (*url*) – The name of the endpoint.
- **args** (*Iterable*) – Additional parts of the endpoint URL.

Return type *unicode*

session

Get the `BoxSession` instance the object is using.

Return type `BoxSession`

translator

The translator used for translating Box API JSON responses into `BaseAPIJSONObject` smart objects.

Return type `Translator`

boxsdk.object.base_object module

class `boxsdk.object.base_object.BaseObject` (*session*, *object_id*, *response_object=None*)

Bases: `boxsdk.object.base_endpoint.BaseEndpoint`, `boxsdk.object.base_api_json_object.BaseAPIJSONObject`

A Box API endpoint for interacting with a Box object.

clone (*session=None*)

Base class override.

delete

Delete the object.

Parameters

- **params** (*dict* or *None*) – Additional parameters to send with the request. Can be *None*
- **headers** (*dict* or *None*) – Any customer headers to send with the request. Can be *None*

Returns Whether or not the delete was successful.

Return type *bool*

Raises `BoxAPIException` in case of unexpected errors.

get

Get information about the object, specified by fields. If fields is *None*, return the default fields.

Parameters

- **fields** (*Iterable* of *unicode*) – List of fields to request.
- **headers** (*dict*) – Additional headers to send with the request.

Returns An object of the same type that has the requested information.

Return type *BaseObject*

get_type_url()

Return the URL for type of the given resource.

Return type *unicode*

get_url(*args)

Base class override. Return the given object's URL, appending any optional parts as specified by args.

object_id

Return the Box ID for the object.

Return type *unicode*

update_info

Update information about this object.

Send a PUT to the object's base endpoint to modify the provided attributes.

Parameters

- **data** (*dict*) – The updated information about this object. Must be JSON serializable. Update the object attributes in `data.keys()`. The semantics of the values depends on the the type and attributes of the object being updated. For details on particular semantics, refer to the Box developer API documentation <<https://box-content.readme.io/docs/>>.
- **params** (*dict* or *None*) – (optional) Query string parameters for the request.
- **headers** (*dict* or *None*) – (optional) Extra HTTP headers for the request.
- **kwargs** – Optional arguments that `put` takes.

Returns The updated object. Return a new object of the same type, without modifying the original object passed as self. Construct the new object with all the default attributes that are returned from the endpoint.

Return type *BaseObject*

boxsdk.object.cloneable module**class boxsdk.object.cloneable.Cloneable**

Bases: `object`

Cloneable interface to be implemented by endpoint objects that should have ability to be cloned, but with a different session member if desired.

as_user(user)

Returns a new endpoint object with default headers set up to make requests as the specified user.

Parameters **user** (*User*) – The user to impersonate when making API requests.

clone(session=None)

Returns a copy of this cloneable object using the specified session.

Parameters **session** (*BoxSession*) – The Box session used to make requests.

session

Return the Box session being used to make requests.

Return type `BoxSession`

with_shared_link (*shared_link*, *shared_link_password*)

Returns a new endpoint object with default headers set up to make requests using the shared link for auth.

Parameters

- **shared_link** (*unicode*) – The shared link.
- **shared_link_password** (*unicode*) – The password for the shared link.

boxsdk.object.collaboration module

class `boxsdk.object.collaboration.Collaboration` (*session*, *object_id*, *response_object=None*)

Bases: `boxsdk.object.base_object.BaseObject`

An object that represents a collaboration between a folder and an individual or group

accept

Accepts a pending collaboration

reject

Rejects a pending collaboration

update_info

Edit an existing collaboration on Box

Parameters

- **role** (*CollaborationRole*) – The new role for this collaboration or `None` to leave unchanged
- **status** (*CollaborationStatus*) – The new status for this collaboration or `None` to leave unchanged. A pending collaboration can be set to `accepted` or `rejected` if permissions allow it.

Returns Whether or not the edit was successful.

Return type `bool`

Raises `BoxAPIException` if current user doesn't have permissions to edit the collaboration.

class `boxsdk.object.collaboration.CollaborationRole`

Bases: `boxsdk.util.text_enum.TextEnum`

An enum of possible collaboration roles

`CO_OWNER = u'co-owner'`

`EDITOR = u'editor'`

`OWNER = u'owner'`

`PREVIEWER = u'previewer'`

`PREVIEWER_UPLOADER = u'previewer uploader'`

`UPLOADER = u'uploader'`

`VIEWER = u'viewer'`

`VIEWER_UPLOADER = u'viewer uploader'`

class boxsdk.object.collaboration.CollaborationStatus

Bases: *boxsdk.util.text_enum.TextEnum*

An enum of possible statuses of a collaboration

ACCEPTED = u'accepted'

PENDING = u'pending'

REJECTED = u'rejected'

boxsdk.object.collaboration_whitelist module

class boxsdk.object.collaboration_whitelist.CollaborationWhitelist (*session*,
***kwargs*)

Bases: *boxsdk.object.base_endpoint.BaseEndpoint*

Represents the whitelist of email domains that users in an enterprise may collaborate with.

add_domain

Add a new domain to the collaboration whitelist.

Parameters

- **domain** (*unicode*) – The email domain to add to the whitelist.
- **direction** (*unicode*) – The direction in which collaboration should be allowed: ‘inbound’, ‘outbound’, or ‘both’.

Returns The created whitelist entry for the domain.

Return type CollaborationWhitelistEntry

add_exemption

Exempt a user from the collaboration whitelist.

Parameters **user** (*User*) – The user to exempt from the whitelist.

Returns The created whitelist exemption.

Return type CollaborationWhitelistExemptTarget

get_entries

Get the entries in the collaboration whitelist using limit-offset paging.

Parameters

- **limit** (*int* or *None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or *None*) – The paging marker to start paging from.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the whitelist.

Return type BoxObjectCollection

get_exemptions

Get the list of exempted users who are not subject to the collaboration whitelist rules.

Parameters

- **limit** (*int* or *None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.

- **marker** (*unicode* or *None*) – The paging marker to start paging from.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the exemptions to the whitelist.

Return type `BoxObjectCollection`

class `boxsdk.object.collaboration_whitelist.WhitelistDirection`
Bases: `boxsdk.util.text_enum.TextEnum`

Used to determine the direction of the whitelist.

BOTH = `u'both'`

INBOUND = `u'inbound'`

OUTBOUND = `u'outbound'`

`boxsdk.object.collaboration_whitelist_entry` module

class `boxsdk.object.collaboration_whitelist_entry.CollaborationWhitelistEntry` (*session*,
object_id,
response_object=None)

Bases: `boxsdk.object.base_object.BaseObject`

Represents a whitelisted email domain for enterprise collaboration.

get_url (*args)

Gets the collaboration whitelist entries endpoint URL.

Returns The collaboration whitelist entries endpoint URL.

Return type *unicode*

`boxsdk.object.collaboration_whitelist_exempt_target` module

class `boxsdk.object.collaboration_whitelist_exempt_target.CollaborationWhitelistExemptTarget`

Bases: `boxsdk.object.base_object.BaseObject`

Represents a user who is exempted from the collaboration whitelist.

`boxsdk.object.collection` module

class `boxsdk.object.collection.Collection` (*session*, *object_id*, *response_object=None*)
Bases: `boxsdk.object.base_object.BaseObject`

Box API endpoint for interacting with collections.

get_items

Get the items in a collection using limit-offset paging.

Parameters

- **limit** (*int* or *None*) – The maximum number of items to return per page. If not specified, then will use the server-side default.
- **offset** (*int*) – The index at which to start returning items.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the items in the folder.

Return type `BoxObjectCollection`

boxsdk.object.comment module

class `boxsdk.object.comment.Comment` (*session*, *object_id*, *response_object=None*)

Bases: `boxsdk.object.base_object.BaseObject`

An object that represents a comment on an item

static construct_params_from_message (*message*)

edit

Edit the message of the comment.

Parameters **message** (*unicode*) – The content of the reply comment.

reply

Add a reply to the comment.

Parameters **message** (*unicode*) – The content of the reply comment.

boxsdk.object.device_pinner module

class `boxsdk.object.device_pinner.DevicePinner` (*session*, *object_id*, *response_object=None*)

Bases: `boxsdk.object.base_object.BaseObject`

Represents the device pinner

boxsdk.object.email_alias module

class `boxsdk.object.email_alias.EmailAlias` (*session*, *object_id*, *response_object=None*)

Bases: `boxsdk.object.base_object.BaseObject`

Represents a Box email alias.

boxsdk.object.enterprise module

class `boxsdk.object.enterprise.Enterprise` (*session*, *object_id*, *response_object=None*)

Bases: `boxsdk.object.base_object.BaseObject`

Represents a Box file version retention.

invite_user

Invites an existing user to an Enterprise. The user must already have a Box account.

Parameters **user_email** (*unicode*) – The login email address of the user that will receive the invitation.

Returns The invitation record for the user

Return type Invite

boxsdk.object.event module

class boxsdk.object.event.**Event** (*response_object=None, **kwargs*)

Bases: *boxsdk.object.api_json_object.APIJSONObject*

Represents a single Box event.

boxsdk.object.events module

class boxsdk.object.events.**EnterpriseEventsStreamType**

Bases: *boxsdk.object.events.EventsStreamType*

An enum of all possible values of the *stream_type* parameter for enterprise events.

- **ADMIN_LOGS**: Retrieves up to a year's events for all users in the enterprise.

NOTE: Requires Admin: These stream types will only work with an auth token from an enterprise admin account.

<<https://box-content.readme.io/reference#enterprise-events>>

ADMIN_LOGS = u'admin_logs'

class boxsdk.object.events.**Events** (*session, **kwargs*)

Bases: *boxsdk.object.base_endpoint.BaseEndpoint*

Box API endpoint for subscribing to changes in a Box account.

generate_events_with_long_polling

Subscribe to events from the given stream position.

Parameters

- **stream_position** (*unicode*) – The location in the stream from which to start getting events. 0 is the beginning of time. 'now' will return no events and just current stream position.
- **stream_type** (**:enum:'UserEventsStreamType'**) – (optional) Which type of events to return. Defaults to *UserEventsStreamType.ALL*.

NOTE: Currently, the Box API requires this to be one of the user events stream types. The request will fail if an enterprise events stream type is passed.

Returns Events corresponding to changes on Box in realtime, as they come in.

Return type *generator* of Event

get_events

Get Box events from a given stream position for a given stream type.

Parameters

- **limit** (*int*) – Maximum number of events to return.
- **stream_position** (*unicode*) – The location in the stream from which to start getting events. 0 is the beginning of time. 'now' will return no events and just current stream position.

NOTE: Currently, ‘now’ is only valid for user events stream types. The request will fail if an enterprise events stream type is passed.

- **stream_type** (:enum:‘EventsStreamType’) – (optional) Which type of events to return. Defaults to *UserEventsStreamType.ALL*.

Returns Dictionary containing the next stream position along with a list of some number of events.

Return type *dict*

get_latest_stream_position

Get the latest stream position. The return value can be used with *get_events()* or *generate_events_with_long_polling()*.

Parameters **stream_type** (:enum:‘UserEventsStreamType’) – (optional) Which events stream to query. Defaults to *UserEventsStreamType.ALL*.

NOTE: Currently, the Box API requires this to be one of the user events stream types. The request will fail if an enterprise events stream type is passed.

Returns The latest stream position.

Return type *int*

get_long_poll_options

Get the url and retry timeout for setting up a long polling connection.

Parameters **stream_type** (:enum:‘EventsStreamType’) – (optional) Which type of events to return. Defaults to *UserEventsStreamType.ALL*.

Returns

A *dict* including a long poll url, retry timeout, etc. E.g.

```
{ "type": "realtime_server", "url": "http://2.realtime.services.box.net/subscribe?
channel=cc807c9c4869ffb1c81a&stream_type=all", "ttl": "10", "max_retries":
"10", "retry_timeout": 610,
}
```

Return type *dict*

get_url (*args)

Base class override.

long_poll

Set up a long poll connection at the specified url.

Parameters

- **options** (*dict*) – The long poll options which include a long pull url, retry timeout, etc.
- **stream_position** (*unicode*) – The location in the stream from which to start getting events. 0 is the beginning of time. ‘now’ will return no events and just current stream position.

Returns {“message”: “new_change”}, which means there’re new changes on Box or {“version”: 1, “message”: “reconnect”} if nothing happens on Box during the long poll.

Return type *dict*

class boxsdk.object.events.EventsStreamType

Bases: *boxsdk.util.text_enum.TextEnum*

An enum of all possible values of the *stream_type* parameter for user events.

The value of the *stream_type* parameter determines the type of events returned by the endpoint.

[<https://box-content.readme.io/reference#events>](https://box-content.readme.io/reference#events)

ADMIN_LOGS = u'admin_logs'

ALL = u'all'

CHANGES = u'changes'

SYNC = u'sync'

class boxsdk.object.events.**UserEventsStreamType**

Bases: *boxsdk.object.events.EventsStreamType*

An enum of all possible values of the *stream_type* parameter for user events.

- **ALL**: Returns all user events.
- **CHANGES**: Returns tree changes.
- **SYNC**: Returns tree changes only for sync folders.

[<https://box-content.readme.io/reference#standard-user-events>](https://box-content.readme.io/reference#standard-user-events)

ALL = u'all'

CHANGES = u'changes'

SYNC = u'sync'

boxsdk.object.file module

class boxsdk.object.file.**File** (*session, object_id, response_object=None*)

Bases: *boxsdk.object.item.Item*

Box API endpoint for interacting with files.

add_comment

Add a comment to the file.

Parameters **message** (*unicode*) – The content of the reply comment.

content

Get the content of a file on Box.

Parameters

- **file_version** (*FileVersion* or *None*) – The specific version of the file to retrieve the contents of.
- **byte_range** (*(int, int)*) – A tuple of inclusive byte offsets to download, e.g. (100, 199) to download the second 100 bytes of a file

Returns File content as bytes.

Return type *bytes*

copy (*parent_folder, name=None, file_version=None*)

Copy the item to the given folder.

Parameters

- **parent_folder** (*Folder*) – The folder to which the item should be copied.

- **name** (*unicode* or *None*) – A new name for the item, in case there is already another item in the new parent folder with the same name.
- **file_version** (*FileVersion*) – A specific version of the file to copy

Returns The copy of the file

Return type *File*

create_task

Create a task on the given file.

Parameters

- **message** (*unicode* or *None*) – An optional message to include in the task.
- **due_at** (*unicode* or *None*) – When this task is due.

Returns The newly created task

Return type *Task*

create_upload_session (*file_size*, *file_name=None*)

Create a new chunked upload session for uploading a new version of the file.

Parameters

- **file_size** (*int*) – The size of the file in bytes that will be uploaded.
- **file_name** (*unicode* or *None*) – The new name of the file version that will be uploaded.

Returns A *UploadSession* object.

Return type *UploadSession*

delete_version

Delete a specific version of a file.

Parameters

- **file_version** (*FileVersion*) – The file version to delete.
- **etag** (*unicode* or *None*) – If specified, instruct the Box API to update the item only if the current version's etag matches.

Returns Whether the operation succeeded.

Return type *boolean*

download_to

Download the file; write it to the given stream.

Parameters

- **writable_stream** (*file*) – A file-like object where bytes can be written into.
- **file_version** (*FileVersion* or *None*) – The specific version of the file to retrieve the contents of.
- **byte_range** (*(int, int)*) – A tuple of inclusive byte offsets to download, e.g. (100, 199) to download the second 100 bytes of a file

get_chunked_uploader

Instantiate the chunked upload instance and create upload session with path to file.

Parameters

- **file_path** (*unicode*) – The local path to the file you wish to upload.

- **rename_file** (*bool*) – Indicates whether the file should be renamed or not.

Returns A `ChunkedUploader` object.

Return type `ChunkedUploader`

get_comments

Get the comments on the file.

Parameters

- **limit** (*int* or `None`) – The maximum number of items to return per page. If not specified, then will use the server-side default.
- **offset** (*int*) – The index at which to start returning items.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the items in the folder.

Return type `BoxObjectCollection`

get_download_url

get_embed_url

Get a URL suitable for embedding the file in an iframe in a web application.

Returns The embed URL.

Return type *unicode*

get_previous_versions

Get previous versions of the file.

Parameters

- **limit** (*int* or `None`) – The maximum number of items to return per page. If not specified, then will use the server-side default.
- **offset** (*int*) – The index at which to start returning items.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the previous versions of the file.

Return type `BoxObjectCollection`

get_representation_info

Get information about the representations available for a file.

Parameters **rep_hints** (*unicode* or `None`) – A formatted string describing which representations are desired.

Returns The representation information

Return type *list of dict*

get_shared_link_download_url

Get a shared link download url for the file with the given access permissions. This url is a direct download url for the file.

Parameters

- **access** (*unicode* or `None`) – Determines who can access the shared link. May be open, company, or collaborators. If no access is specified, the default access will be used.
- **etag** (*unicode* or `None`) – If specified, instruct the Box API to create the link only if the current version's etag matches.

- **unshared_at** (*unicode* or *None*) – The date on which this link should be disabled. May only be set if the current user is not a free user and has permission to set expiration dates. Takes an RFC3339-formatted string, e.g. ‘2018-10-31T23:59:59-07:00’ for 11:59:59 PM on October 31, 2018 in the America/Los_Angeles timezone. The time portion can be omitted, which defaults to midnight (00:00:00) on that date.
- **allow_preview** (*bool* or *None*) – Whether or not the item being shared can be previewed when accessed via the shared link. If this parameter is *None*, the default setting will be used.
- **password** (*unicode* or *None*) – The password required to view this link. If no password is specified then no password will be set. Please notice that this is a premium feature, which might not be available to your app.

Returns The URL of the shared link that allows direct download.

Return type *unicode*

Raises `BoxAPIException` if the specified etag doesn’t match the latest version of the item.

get_tasks

Get the entries in the file tasks.

Parameters **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the file tasks

Return type `BoxObjectCollection`

get_thumbnail

Retrieve a thumbnail image for the file.

Parameters

- **extension** (*unicode*) – The file extension for the thumbnail, e.g. ‘png’ or ‘jpg’
- **min_width** (*int* or *None*) – The minimum width required for the thumbnail image
- **min_height** (*int* or *None*) – The minimum height required for the thumbnail image
- **max_width** (*int* or *None*) – The maximum width required for the thumbnail image
- **max_height** (*int* or *None*) – The maximum height required for the thumbnail image

Returns The file contents of the thumbnail image

Return type *bytes*

lock

Lock a file, preventing others from modifying (or possibly even downloading) it.

Parameters

- **prevent_download** (*bool*) – Whether or not the lock should prevent other users from downloading the file.
- **expire_time** (*unicode* or *None*) – The RFC-3339 datetime when the lock should automatically expire, unlocking the file.

Returns A new `File` instance reflecting that the file has been locked.

Return type `File`

preflight_check

Make an API call to check if the file can be updated with the new name and size of the file.

Parameters

- **size** (*int*) – The size of the file in bytes. Specify 0 for unknown file-sizes.
- **name** (*unicode*) – The name of the file to be updated. It's optional, if the name is not being changed.

Raises `BoxAPIException` when preflight check fails.

promote_version

Promote a file version to become the current version of this file. This will create a new file version identical to the previous version as the new current version.

Parameters **file_version** (`FileVersion`) – The file version to promote.

Returns The new file version created as the current.

Return type `FileVersion`

unlock

Unlock a file, releasing any restrictions that the lock maintained.

Returns A new `File` instance reflecting that the file has been unlocked.

Return type `File`

update_contents

Upload a new version of a file. The contents are taken from the given file path.

Parameters

- **file_path** (*unicode*) – The path of the file that should be uploaded.
- **etag** (*unicode* or `None`) – If specified, instruct the Box API to update the item only if the current version's etag matches.
- **preflight_check** (*bool*) – If specified, preflight check will be performed before actually uploading the file.
- **preflight_expected_size** (*int*) – The size of the file to be uploaded in bytes, which is used for preflight check. The default value is '0', which means the file size is unknown.
- **upload_using_accelerator** (*bool*) – If specified, the upload will try to use Box Accelerator to speed up the uploads for big files. It will make an extra API call before the actual upload to get the Accelerator upload url, and then make a POST request to that url instead of the default Box upload url. It falls back to normal upload endpoint, if cannot get the Accelerator upload url.

Please notice that this is a premium feature, which might not be available to your app.

Returns A new file object

Return type `File`

Raises `BoxAPIException` if the specified etag doesn't match the latest version of the file or preflight check fails.

update_contents_with_stream

Upload a new version of a file, taking the contents from the given file stream.

Parameters

- **file_stream** (*file*) – The file-like object containing the bytes
- **etag** (*unicode* or `None`) – If specified, instruct the Box API to update the item only if the current version's etag matches.

- **preflight_check** (*bool*) – If specified, preflight check will be performed before actually uploading the file.
- **preflight_expected_size** (*int*) – The size of the file to be uploaded in bytes, which is used for preflight check. The default value is '0', which means the file size is unknown.
- **upload_using_accelerator** (*bool*) – If specified, the upload will try to use Box Accelerator to speed up the uploads for big files. It will make an extra API call before the actual upload to get the Accelerator upload url, and then make a POST request to that url instead of the default Box upload url. It falls back to normal upload endpoint, if cannot get the Accelerator upload url.

Please notice that this is a premium feature, which might not be available to your app.

Returns A new file object

Return type *File*

Raises `BoxAPIException` if the specified etag doesn't match the latest version of the file or preflight check fails.

boxsdk.object.file_version module

class `boxsdk.object.file_version.FileVersion` (*session, object_id, response_object=None*)
 Bases: `boxsdk.object.base_object.BaseObject`

Represents a Box file version.

boxsdk.object.file_version_retention module

class `boxsdk.object.file_version_retention.FileVersionRetention` (*session, object_id, response_object=None*)
 Bases: `boxsdk.object.base_object.BaseObject`

Represents a Box file version retention.

boxsdk.object.folder module

class `boxsdk.object.folder.Folder` (*session, object_id, response_object=None*)
 Bases: `boxsdk.object.item.Item`

Box API endpoint for interacting with folders.

add_collaborator

Add a collaborator to the folder

Parameters

- **collaborator** (*User or Group or unicode*) – collaborator to add. May be a User, Group, or email address (unicode string)
- **role** (*CollaboratorRole*) – The collaboration role
- **notify** (*bool*) – Whether to send a notification email to the collaborator
- **can_view_path** (*bool*) – Whether view path collaboration feature is enabled or not. Note - only folder owners can create collaborations with `can_view_path`.

Returns The new collaboration

Return type Collaboration

cascade_metadata

Create a metadata cascade policy to apply the metadata instance values on the folder for the given metadata template to all files within the folder.

Parameters **metadata_template** (MetadataTemplate) – The metadata template to cascade values for

Returns The created metadata cascade policy

Return type MetadataCascadePolicy

create_subfolder

Create a subfolder with the given name in the folder.

Parameters **name** (*unicode*) – The name of the new folder

create_upload_session (*file_size, file_name*)

Creates a new chunked upload session for upload a new file.

Parameters

- **file_size** (*int*) – The size of the file in bytes that will be uploaded.
- **file_name** (*unicode*) – The name of the file that will be uploaded.

Returns A UploadSession object.

Return type UploadSession

create_web_link

Create a WebLink with a given url.

Parameters

- **target_url** (*unicode*) – The url the web link points to.
- **name** (*unicode* or None) – The name of the web link. Optional, the API will give it a default if not specified.
- **description** – Description of the web link

Returns A WebLink object.

Return type WebLink

delete

Base class override. Delete the folder.

Parameters

- **recursive** (*bool*) – Whether or not the folder should be deleted if it isn't empty.
- **etag** (*unicode* or None) – If specified, instruct the Box API to delete the folder only if the current version's etag matches.

Returns Whether or not the update was successful.

Return type *bool*

Raises BoxAPIException if the specified etag doesn't match the latest version of the folder.

get_chunked_uploader

Instantiate the chunked upload instance and create upload session with path to file.

Parameters `file_path` (*unicode*) – The local path to the file you wish to upload.

Returns A `ChunkedUploader` object.

Return type `ChunkedUploader`

`get_items`

Get the items in a folder.

Parameters

- **limit** (*int* or `None`) – The maximum number of items to return.
- **offset** (*int*) – The index at which to start returning items when using offset-based paging.
- **use_marker** (*bool*) – Whether to use marker-based paging instead of offset-based paging, defaults to `False`.
- **marker** (*unicode* or `None`) – The paging marker to start returning items from when using marker-based paging.
- **sort** – Item field to sort results on: ‘id’, ‘name’, or ‘date’.
- **direction** (*unicode* or `None`) – Sort direction for the items returned.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns The collection of items in the folder.

Return type *Iterable* of `Item`

`get_metadata_cascade_policies`

Get the metadata cascade policies current applied to the folder.

Parameters

- **owner_enterprise** (`Enterprise`) – Which enterprise’s metadata templates to get cascade policies for. This defaults to the current enterprise.
- **limit** (*int* or `None`) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or `None`) – The paging marker to start paging from.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the cascade policies attached on the folder.

Return type `BoxObjectCollection`

`preflight_check`

Make an API call to check if a new file with given name and size can be uploaded to this folder.

Parameters

- **size** (*int*) – The size of the file in bytes. Specify 0 for unknown file-sizes.
- **name** (*unicode*) – The name of the file to be uploaded.

Raises `BoxAPIException` when preflight check fails.

`update_sync_state`

Update the `sync_state` attribute of this folder.

Change whether this folder will be synced by sync clients.

Parameters **sync_state** (`FolderSyncState`) – The desired sync state of this folder. Must be a member of the `FolderSyncState` enum.

Returns A new *Folder* instance with updated information reflecting the new sync state.

Return type *Folder*

upload

Upload a file to the folder. The contents are taken from the given file path, and it will have the given name. If `file_name` is not specified, the uploaded file will take its name from `file_path`.

Parameters

- **file_path** (*unicode*) – The file path of the file to upload to Box.
- **file_name** (*unicode*) – The name to give the file on Box. If `None`, then use the leaf name of `file_path`
- **preflight_check** (*bool*) – If specified, preflight check will be performed before actually uploading the file.
- **preflight_expected_size** (*int*) – The size of the file to be uploaded in bytes, which is used for preflight check. The default value is '0', which means the file size is unknown.
- **upload_using_accelerator** (*bool*) – If specified, the upload will try to use Box Accelerator to speed up the uploads for big files. It will make an extra API call before the actual upload to get the Accelerator upload url, and then make a POST request to that url instead of the default Box upload url. It falls back to normal upload endpoint, if cannot get the Accelerator upload url.

Please notice that this is a premium feature, which might not be available to your app.

Returns The newly uploaded file.

Return type *File*

upload_stream

Upload a file to the folder. The contents are taken from the given file stream, and it will have the given name.

Parameters

- **file_stream** (*file*) – The file-like object containing the bytes
- **file_name** (*unicode*) – The name to give the file on Box.
- **preflight_check** (*bool*) – If specified, preflight check will be performed before actually uploading the file.
- **preflight_expected_size** (*int*) – The size of the file to be uploaded in bytes, which is used for preflight check. The default value is '0', which means the file size is unknown.
- **upload_using_accelerator** (*bool*) – If specified, the upload will try to use Box Accelerator to speed up the uploads for big files. It will make an extra API call before the actual upload to get the Accelerator upload url, and then make a POST request to that url instead of the default Box upload url. It falls back to normal upload endpoint, if cannot get the Accelerator upload url.

Please notice that this is a premium feature, which might not be available to your app.

Returns The newly uploaded file.

Return type *File*

class boxsdk.object.folder.**FolderSyncState**

Bases: *boxsdk.util.text_enum.TextEnum*

An enum of all possible values of a folder's `sync_state` attribute.

The value of the `sync_state` attribute determines whether the folder will be synced by sync clients.

IS_SYNCED = u'synced'

NOT_SYNCED = u'not_synced'

PARTIALLY_SYNCED = u'partially_synced'

boxsdk.object.group module

class boxsdk.object.group.**Group** (*session, object_id, response_object=None*)

Bases: *boxsdk.object.base_object.BaseObject*

Represents a Box group.

add_member

Add the given user to this group under the given role

Parameters

- **user** (*User*) – The User to add to the group.
- **role** (*unicode*) – The role for the user.
- **configurable_permissions** – This is a group level permission that is configured for Group members with admin role only.

Returns The new GroupMembership instance.

Return type GroupMembership

get_collaborations

Get the entries in the collaboration for the group using limit-offset paging.

Parameters

- **limit** (*int* or *None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **offset** (*int* or *None*) – The offset of the item at which to begin the response.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the collaboration for the group.

Return type BoxObjectCollection

get_memberships

Get the membership records for the group, which indicate which users are included in the group.

Parameters

- **offset** (*int* or *None*) – The index at which to begin.
- **limit** (*int* or *None*) – The maximum number of items to return in a page.

Returns The collection of membership objects for the group.

Return type *Iterable* of GroupMembership

```
class boxsdk.object.group.GroupRole
    Bases: boxsdk.util.text_enum.TextEnum

    The role in the group.

    ADMIN = u'admin'
    MEMBER = u'member'
```

boxsdk.object.group_membership module

```
class boxsdk.object.group_membership.GroupMembership(session, object_id, re-
                                                    sponse_object=None)
    Bases: boxsdk.object.base_object.BaseObject

    Represents a Box group_membership, which relates a user & group under a specific role.
```

boxsdk.object.invite module

```
class boxsdk.object.invite.Invite(session, object_id, response_object=None)
    Bases: boxsdk.object.base_object.BaseObject

    Represents the invite
```

boxsdk.object.item module

```
class boxsdk.object.item.Item(session, object_id, response_object=None)
    Bases: boxsdk.object.base_object.BaseObject
```

Box API endpoint for interacting with files and folders.

add_to_collection

Add the item to a collection. This method is not currently safe from race conditions.

Parameters **collection** (Collection) – The collection to add the item to.

Returns This item.

Return type *Item*

apply_watermark

Apply watermark on a Box file

Returns Watermark object.

Return type Watermark

collaborate

Collaborate user or group onto a Box item.

Parameters

- **accessible_by** (class:*User* or class:*Group*) – An object containing the collaborator.
- **role** (*unicode*) – The permission level to grant the collaborator.
- **can_view_path** (*bool* or *None*) – Indicates whether the user can view the path of the folder collaborated into.
- **notify** (*bool* or *None*) – Determines if the collaborator should receive a notification for the collaboration.

- **fields** (*Iterable of unicode*) – List of fields to request.

Returns The new collaboration

Return type `Collaboration`

collaborate_with_login

Collaborate user onto a Box item with the user login.

Parameters

- **login** (*unicode*) – The email address of the person to grant access to.
- **role** (*unicode*) – The permission level to grant the collaborator.
- **can_view_path** (*bool* or *None*) – Indicates whether the user can view the path of the folder collaborated into.
- **notify** (*bool* or *None*) – Determines if the collaborator should receive a notification for the collaboration.
- **fields** (*Iterable of unicode*) – List of fields to request.

Returns The new collaboration with the user login

Return type `Collaboration`

copy

Copy the item to the given folder.

Parameters

- **parent_folder** (`Folder`) – The folder to which the item should be copied.
- **name** (*unicode* or *None*) – A new name for the item, in case there is already another item in the new parent folder with the same name.

create_shared_link

Create a shared link for the item with the given access permissions.

Parameters

- **access** (*unicode* or *None*) – Determines who can access the shared link. May be open, company, or collaborators. If no access is specified, the default access will be used.
- **etag** (*unicode* or *None*) – If specified, instruct the Box API to create the link only if the current version's etag matches.
- **unshared_at** (*unicode* or *None*) – The date on which this link should be disabled. May only be set if the current user is not a free user and has permission to set expiration dates. Takes an RFC3339-formatted string, e.g. '2018-10-31T23:59:59-07:00' for 11:59:59 PM on October 31, 2018 in the America/Los_Angeles timezone. The time portion can be omitted, which defaults to midnight (00:00:00) on that date.
- **allow_download** (*bool* or *None*) – Whether or not the item being shared can be downloaded when accessed via the shared link. If this parameter is *None*, the default setting will be used.
- **allow_preview** (*bool* or *None*) – Whether or not the item being shared can be previewed when accessed via the shared link. If this parameter is *None*, the default setting will be used.
- **password** (*unicode* or *None*) – The password required to view this link. If no password is specified then no password will be set. Please notice that this is a premium feature, which might not be available to your app.

Returns The updated object with s shared link. Returns a new object of the same type, without modifying the original object passed as self.

Return type *Item*

Raises `BoxAPIException` if the specified etag doesn't match the latest version of the item.

delete

Delete the item.

Parameters

- **params** (*dict*) – Additional parameters to send with the request.
- **etag** (*unicode* or *None*) – If specified, instruct the Box API to delete the item only if the current version's etag matches.

Returns Whether or not the delete was successful.

Return type *bool*

Raises `BoxAPIException` if the specified etag doesn't match the latest version of the item.

delete_watermark

Deletes the watermark info for a Box file

Returns Whether or not the delete succeeded.

Return type *bool*

get

Base class override.

Parameters

- **fields** (*Iterable* of *unicode*) – List of fields to request.
- **etag** (*unicode* or *None*) – If specified, instruct the Box API to get the info only if the current version's etag doesn't match.

Returns Information about the file or folder.

Return type *dict*

Raises `BoxAPIException` if the specified etag matches the latest version of the item.

get_all_metadata()

Get all metadata attached to the item.

get_collaborations

Get the entries in the collaboration.

Parameters

- **limit** (*int* or *None*) – The maximum number of items to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or *None*) – The paging marker to start returning items from when using marker-based paging.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the collaboration.

Return type `BoxObjectCollection`

get_shared_link

Get a shared link for the item with the given access permissions. This url leads to a Box.com shared link page, where the item can be previewed, downloaded, etc.

Parameters

- **access** (*unicode* or None) – Determines who can access the shared link. May be open, company, or collaborators. If no access is specified, the default access will be used.
- **etag** (*unicode* or None) – If specified, instruct the Box API to create the link only if the current version's etag matches.
- **unshared_at** (*datetime.date* or None) – The date on which this link should be disabled. May only be set if the current user is not a free user and has permission to set expiration dates.
- **allow_download** (*bool* or None) – Whether or not the item being shared can be downloaded when accessed via the shared link. If this parameter is None, the default setting will be used.
- **allow_preview** (*bool* or None) – Whether or not the item being shared can be previewed when accessed via the shared link. If this parameter is None, the default setting will be used.
- **password** (*unicode* or None) – The password required to view this link. If no password is specified then no password will be set. Please notice that this is a premium feature, which might not be available to your app.

Returns The URL of the shared link.

Return type *unicode*

Raises `BoxAPIException` if the specified etag doesn't match the latest version of the item.

get_watermark

Return the watermark info for a Box file

Returns Watermark object.

Return type `Watermark`

metadata (*scope=u'global', template=u'properties'*)

Instantiate a `Metadata` object associated with this item.

Parameters

- **scope** (*unicode*) – Scope of the metadata. Must be either 'global' or 'enterprise'.
- **template** (*unicode*) – The name of the metadata template. See <https://docs.box.com/reference#metadata-object> for more details.

Returns A new metadata instance associated with this item.

Return type `Metadata`

move

Move the item to the given folder.

Parameters

- **parent_folder** (`Folder`) – The parent `Folder` object, where the item will be moved to.
- **name** (*unicode* or None) – A new name for the item, in case there is already another item in the new parent folder with the same name.

remove_from_collection

Remove the item from a collection. This method is not currently safe from race conditions.

Parameters **collection** (`Collection`) – The collection to remove the item from.

Returns This item.

Return type `Item`

remove_shared_link

Delete the shared link for the item.

Parameters **etag** (`unicode` or `None`) – If specified, instruct the Box API to delete the link only if the current version's etag matches.

Returns Whether or not the update was successful.

Return type `bool`

Raises `BoxAPIException` if the specified etag doesn't match the latest version of the item.

rename

Rename the item to a new name.

Parameters **name** (`unicode`) – The new name, you want the item to be renamed to.

update_info

Baseclass override.

Parameters **etag** (`unicode` or `None`) – If specified, instruct the Box API to perform the update only if the current version's etag matches.

Returns The updated object. Return a new object of the same type, without modifying the original object passed as self. Construct the new object with all the default attributes that are returned from the endpoint.

Return type `BaseObject`

boxsdk.object.legal_hold module

class `boxsdk.object.legal_hold.LegalHold` (`session`, `object_id`, `response_object=None`)

Bases: `boxsdk.object.base_object.BaseObject`

Represents the legal hold policy for a file version

get_url (*args)

boxsdk.object.legal_hold_policy module

class `boxsdk.object.legal_hold_policy.LegalHoldPolicy` (`session`, `object_id`, `response_object=None`)

Bases: `boxsdk.object.base_object.BaseObject`

Represents a Box legal_hold_policy

assign

Assign legal hold policy

Parameters **assignee** (`FileVersion` `File` or `Folder` or `User`) – The `file_version`, `file`, `folder`, or `user` to assign the legal hold policy to.

Returns A legal hold policy assignment object

Return type LegalHoldPolicyAssignment

get_assignments

Get the entries in the legal hold policy assignment using limit-offset paging.

Parameters

- **assign_to_type** (*unicode* or None) – Filter assignments of this type only. Can be *file_version*, *file*, *folder*, or *user*
- **assign_to_id** (*unicode* or None) – Filter assignments to this ID only
- **limit** (*int* or None) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or None) – The paging marker to start paging from
- **fields** (*Iterable* of *unicode*) – List of fields to request

Returns An iterator of the entries in the legal hold policy assignment

Return type BoxObjectCollection

get_file_version_legal_holds

Get legal holds for a file version.

Parameters

- **limit** (*int* or None) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **marker** (*unicode* or None) – The paging marker to start paging from
- **fields** (*Iterable* of *unicode*) – List of fields to request

Returns An iterator of the entries in the file version legal holds

Return type BoxObjectCollection

get_url (*args)

boxsdk.object.legal_hold_policy_assignment module

```
class boxsdk.object.legal_hold_policy_assignment.LegalHoldPolicyAssignment (session,
                                                                              ob-
                                                                              ject_id,
                                                                              re-
                                                                              sponse_object=None)
```

Bases: *boxsdk.object.base_object.BaseObject*

Represents the legal hold policy assignment

boxsdk.object.metadata module

```
class boxsdk.object.metadata.Metadata (session, box_object, scope, template)
```

Bases: *boxsdk.object.base_endpoint.BaseEndpoint*

clone (session=None)

Base class override.

create

Create the metadata instance on Box. If the instance already exists, use *update()* instead.

Parameters `metadata` (*dict*) – The key/value pairs to be stored in this metadata instance on Box.

Returns A dictionary containing the key/value pairs for this metadata object.

Return type *Metadata*

delete

Delete the metadata object.

Returns Whether or not the delete was successful.

Return type *bool*

get

Get the key/value pairs that make up this metadata instance.

Returns A dictionary containing the key/value pairs for this metadata object.

Return type *Metadata*

get_url (*args)

Base class override.

static start_update ()

Get a *MetadataUpdate* for use with the *update* () method.

Returns A metadata update object that can be used to update this metadata object.

Return type *MetadataUpdate*

update

Update the key/value pairs associated with this metadata object. See <https://box-content.readme.io/reference#update-metadata> for more details.

Parameters `metadata_update` (*MetadataUpdate*) – A metadata update object containing the changes that should be made to the metadata.

Returns A dictionary containing the updated key/value pairs for this metadata object.

Return type *Metadata*

class boxsdk.object.metadata.**MetadataUpdate**

Bases: *object*

Helper class for updating Box metadata. See <https://box-content.readme.io/reference#update-metadata> for more details. See <http://jsonpatch.com/> for details about JSON patch.

add (path, value)

Insert an add operation to this metadata update.

Parameters

- **path** (*unicode*) – JSON pointer specifying where to add the new value.
- **value** (*unicode*) – The value to add to the metadata document.

ops

Get a list of json patch operations in this update.

Returns The list of json patch operations in this update.

Return type *list of dict*

remove (path, old_value=None)

Insert a remove operation to this metadata update.

Parameters

- **path** (*unicode*) – JSON pointer specifying where to remove the value from.
- **old_value** (*unicode*) – If specified, only remove the key/value pair if the current value is equal to oldValue.

test (*path, value*)

Insert a test operation to this metadata update. A test operation can invalidate the following operation if the value at the specified path does not match the supplied value.

Parameters

- **path** (*unicode*) – JSON pointer specifying where the value is in the metadata document to test.
- **value** (*unicode*) – The value to match against.

update (*path, value, old_value=None*)

Insert an update operation to this metadata update.

Parameters

- **path** (*unicode*) – JSON pointer specifying where the value is in the metadata document that should be updated.
- **value** (*unicode*) – The updated value.
- **old_value** (*unicode*) – If specified, only update the key/value pair if the current value is equal to oldValue.

boxsdk.object.metadata_cascade_policy module

class boxsdk.object.metadata_cascade_policy.**CascadePolicyConflictResolution**

Bases: *boxsdk.util.text_enum.TextEnum*

OVERWRITE = u'overwrite'

PRESERVE_EXISTING = u'none'

class boxsdk.object.metadata_cascade_policy.**MetadataCascadePolicy** (*session, object_id, response_object=None*)

Bases: *boxsdk.object.base_object.BaseObject*

Represents a metadata cascade policy, which applies folder metadata to files in that folder.

force_apply

Applies the metadata values on the folder to all files within the folder. The conflict resolution parameter determines how conflicts when the same metadata template is already applied to a file will be handled; either the file's existing values or the folder values can be given precedence.

Parameters **conflict_resolution** (*CascadePolicyConflictResolution*) – How conflicting metadata values should be resolved

Returns Whether the force application succeeded.

Return type *bool*

get_url (**args*)

Base class override to account for the correct pluralization.

Return type *unicode*

boxsdk.object.metadata_template module

class boxsdk.object.metadata_template.**MetadataField** (*field_type*, *display_name*,
key=None, *options=None*)

Bases: object

Represents a metadata field when creating or updating a metadata template.

json ()

Returns the correct representation of the template field for the API.

Return type *dict*

class boxsdk.object.metadata_template.**MetadataFieldType**

Bases: *boxsdk.util.text_enum.TextEnum*

DATE = u'date'

ENUM = u'enum'

FLOAT = u'float'

MULTISELECT = u'multiSelect'

STRING = u'string'

class boxsdk.object.metadata_template.**MetadataTemplate** (*session*, *object_id*, *re-*
sponse_object=None)

Bases: *boxsdk.object.base_object.BaseObject*

Represents a metadata template, which contains the the type information for associated metadata fields.

get_url (*args)

Base class override, since metadata templates have a weird compound ID and non-standard URL format

Return type *unicode*

scope

static start_update ()

Start an update operation on the template.

Returns An update object to collect the desired update operations.

Return type *MetadataTemplateUpdate*

template_key

update_info

Update a metadata template with a set of update operations.

Parameters updates (*MetadataTemplateUpdate*) – The update operations to apply to the template

Returns The updated metadata template object

Return type *MetadataTemplate*

class boxsdk.object.metadata_template.**MetadataTemplateUpdate**

Bases: object

Represents a set of update operations to a metadata template.

add_enum_option (*field_key*, *option_key*)

Adds a new option to an enum field.

Parameters

- **field_key** (*unicode*) – The key of the template field to add the option to
- **option_key** (*unicode*) – The option to add

add_field (*field*)

Add a new field to the template.

Parameters **field** (*MetadataField*) – The new field to add

add_operation (*operation*)

Adds an update operation.

Parameters **operation** (*dict*) – The operation to add.

edit_enum_option_key (*field_key, old_option_key, new_option_key*)

Change the key of an enum field option.

Parameters

- **field_key** (*unicode*) – The key of the template field in which the option appears
- **old_option_key** (*unicode*) – The old option key
- **new_option_key** (*unicode*) – The new option key

edit_field (*field_key, field*)

Edits a field in the template.

Parameters

- **field_key** (*unicode*) – The key of the field to update
- **field** (*MetadataField*) – The updated field values

edit_template (*data*)

Edit top-level template properties.

Parameters **data** (*dict*) – The properties to modify

json ()

remove_enum_option (*field_key, option_key*)

Remove an option from an enum field.

Parameters

- **field_key** (*unicode*) – The key of the template field in which the option appears
- **option_key** (*unicode*) – The key of the enum option to remove

remove_field (*field_key*)

Remove a field from the metadata template.

Parameters **field_key** (*unicode*) – The key of the field to remove

reorder_enum_options (*field_key, option_keys*)

Reorders the options in an enum field, which affects their display in UI.

Parameters

- **field_key** (*unicode*) – The key of the enum field to reorder
- **option_keys** (*list of unicode*) – The option keys in the desired order

reorder_fields (*field_keys*)

Reorders the fields in a metadata template, which affects their display in UI.

Parameters **field_keys** (*list of unicode*) – The field keys in the desired order

boxsdk.object.recent_item module

class boxsdk.object.recent_item.**RecentItem** (*response_object=None, **kwargs*)

Bases: *boxsdk.object.base_api_json_object.BaseAPIJSONObject*

Represents a single recent item accessed by a Box user.

boxsdk.object.retention_policy module

class boxsdk.object.retention_policy.**RetentionPolicy** (*session, object_id, response_object=None*)

Bases: *boxsdk.object.base_object.BaseObject*

Represents a Box retention policy.

assign

Assign a retention policy to a Box item

Parameters

- **assignee** (Folder, Enterprise, or MetadataTemplate) – The item to assign the retention policy on.
- **fields** (*Iterable of unicode*) – List of fields to request.

Returns A RetentionPolicyAssignment object.

Return type RetentionPolicyAssignment

assignments

Get the assignments for the retention policy.

Parameters

- **assignment_type** (*unicode* or None.) – The type of retention policy assignment to retrieve. Can be set to ‘folder’, ‘enterprise’, or ‘metadata_template’.
- **limit** (*int* or None) – The maximum number of items to return.
- **marker** (*unicode* or None) – The position marker at which to begin the response.
- **fields** (*Iterable of unicode*) – List of fields to request.

Returns An iterable of assignments in the retention policy.

Return type BoxObjectCollection

get_url (**args*)

Returns the url for this retention policy.

boxsdk.object.retention_policy_assignment module

class boxsdk.object.retention_policy_assignment.**RetentionPolicyAssignment** (*session, object_id, response_object=None*)

Bases: *boxsdk.object.base_object.BaseObject*

Represents a Box retention policy assignment.

boxsdk.object.search module

class boxsdk.object.search.**MetadataSearchFilter** (*template_key, scope*)

Bases: object

Helper class to encapsulate a single search filter. A search filter can only search against one template, but can filter on many fields. See *MetadataSearchFilters*.

add_range_filter (*field_key, gt_value=None, lt_value=None*)

Add a range filter (used for ranged searches on numbers and dates)

Parameters

- **field_key** – The field key to filter on
- **gt_value** (*unicode or int or float or long or None*) – The lower bound of the range filter (inclusive)
- **lt_value** (*unicode or int or float or long or None*) – The upper bound of the range filter (inclusive)

add_value_based_filter (*field_key, value*)

Add a value-based filter (used for token-based search on string fields, and exact match search on all other fields)

Parameters

- **field_key** – The field key to filter on
- **value** (*unicode*) – The value to use to filter

as_dict ()

Returns a *dict* representation of this object

Returns The *dict* representation

Return type *dict*

class boxsdk.object.search.**MetadataSearchFilters**

Bases: object

Helper class to encapsulate a list of metadata search filter params (mdfilters API param) See <https://developers.box.com/metadata-api/#search> for more details

add_filter (*metadata_filter*)

Add a filter to this object. Note that the API only supports one filter.

Parameters **metadata_filter** (*MetadataSearchFilter*) – The filter to add

as_list ()

Get a list of filters from this object to use as a parameter in the Search API

Returns The list of filters

Return type *list of dict*

class boxsdk.object.search.**Search** (*session, **kwargs*)

Bases: *boxsdk.object.base_endpoint.BaseEndpoint*

Search Box for files and folders.

get_url (**args*)

Gets the search endpoint URL.

Returns The search endpoint URL.

Return type *unicode*

static `make_single_metadata_filter` (*template_key*, *scope*)

Make a single *MetadataSearchFilter* that represents a filter on a template. It must be added to a *MetadataSearchFilters*.

Returns The new *MetadataSearchFilter*

Return type *MetadataSearchFilter*

query

Search Box for items matching the given query.

Parameters

- **query** (*unicode*) – The string to search for.
- **limit** (*int*) – The maximum number of items to return.
- **offset** (*int*) – The search result at which to start the response.
- **ancestor_folders** (*Iterable* of `Folder`) – Folder ids to limit the search to.
- **file_extensions** (*iterable* of *unicode*) – File extensions to limit the search to.
- **metadata_filters** (*MetadataSearchFilters*) – Filters used for metadata search
- **result_type** (*unicode*) – Which type of result you want. Can be file or folder.
- **content_types** (*Iterable* of *unicode*) – Which content types to search. Valid types include name, description, file_content, comments, and tags.
- **scope** (*unicode* or `None`) – The scope of content to search over
- **created_at_range** ((*unicode* or `None`, *unicode* or `None`)) – A tuple of the form (lower_bound, upper_bound) for the creation datetime of items to search.
- **updated_at_range** ((*unicode* or `None`, *unicode* or `None`)) – A tuple of the form (lower_bound, upper_bound) for the update datetime of items to search.
- **size_range** ((*int* or `None`, *int* or `None`)) – A tuple of the form (lower_bound, upper_bound) for the size in bytes of items to search.
- **owner_users** (*iterable* of `User`) – Owner users to filter content by; only content belonging to these users will be returned.
- **trash_content** (*unicode* or `None`) – Whether to search trashed or non-trashed content.
- **fields** (*Iterable* of *unicode*) – Fields to include on the returned items.

Returns The collection of items that match the search query.

Return type *Iterable* of `Item`

static `start_metadata_filters` ()

Get a *MetadataSearchFilters* that represents a set of metadata filters.

Returns The new *MetadataSearchFilters*

Return type *MetadataSearchFilters*

class `boxsdk.object.search.SearchScope`

Bases: *boxsdk.util.text_enum.TextEnum*

Enum of possible search scopes.

ENTERPRISE = `u'enterprise_content'`

```
USER = u'user_content'
```

```
class boxsdk.object.search.TrashContent
```

```
    Bases: boxsdk.util.text_enum.TextEnum
```

Enum of trash content values.

```
NONE = u'non_trashed_only'
```

```
ONLY = u'trashed_only'
```

boxsdk.object.storage_policy module

```
class boxsdk.object.storage_policy.StoragePolicy(session, object_id, re-  
                                                sponse_object=None)
```

```
    Bases: boxsdk.object.base_object.BaseObject
```

Represents the storage policy

```
assign(user)
```

Checks to see if a user is already assigned a storage policy or if the storage policy assigned to user belongs to the enterprise. If neither, then update the user storage policy to the new one.

Parameters *user* (User) – The class:User to assign the storage policy to

Returns Information about the StoragePolicyAssignment object.

Return type StoragePolicyAssignment

```
create_assignment(user)
```

Assign a storage policy to a User.

Parameters *user* – The :class:'User' to assign the storage policy to.

Type User

Returns Information about the StoragePolicyAssignment object

Return type StoragePolicyAssignment

```
get_url(*args)
```

Get url for storage policies.

boxsdk.object.storage_policy_assignment module

```
class boxsdk.object.storage_policy_assignment.StoragePolicyAssignment(session,  
                                                                       ob-  
                                                                       ject_id,  
                                                                       re-  
                                                                       sponse_object=None)
```

```
    Bases: boxsdk.object.base_object.BaseObject
```

Represents the storage policy assignment

boxsdk.object.task module

```
class boxsdk.object.task.Task(session, object_id, response_object=None)
```

```
    Bases: boxsdk.object.base_object.BaseObject
```

Represents a Box task.

assign

Assign a task to a single user on a single file.

Parameters **assignee** (User) – The User to assign the task to.

Returns A task assignment object.

Return type TaskAssignment

assign_with_login

Used to assign a task to a single user with the login email address of the assignee.

Parameters **assign_to_login** (*unicode* or None) – The login of the user to assign the task to.

Returns A task assignment object.

Return type TaskAssignment

get_assignments

Get the entries in the file task assignment.

Parameters **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the file task assignment.

Return type BoxObjectCollection

boxsdk.object.task_assignment module

```
class boxsdk.object.task_assignment.ResolutionState
```

Bases: *boxsdk.util.text_enum.TextEnum*

An enum of possible resolution states

```
APPROVED = u'approved'
```

```
COMPLETED = u'completed'
```

```
INCOMPLETE = u'incomplete'
```

```
REJECTED = u'rejected'
```

```
class boxsdk.object.task_assignment.TaskAssignment (session, object_id, re-  
response_object=None)
```

Bases: *boxsdk.object.base_object.BaseObject*

Represents a Box task.

boxsdk.object.terms_of_service module

```
class boxsdk.object.terms_of_service.TermsOfService (session, object_id, re-  
response_object=None)
```

Bases: *boxsdk.object.base_object.BaseObject*

Represents a Box terms of service.

```
accept (user=None)
```

Accept a terms of service.

Parameters **user** (User or None) – The User to assign the terms of service to.

Returns A newly created TermsOfServiceUserStatus object

Return type TermsOfServiceUserStatus

get_user_status (*user=None*)

Get the terms of service user status.

Parameters **user** (User or None) – This is the user to get the status of the terms of service for. This defaults to current user.

Returns A TermsOfServiceUserStatus object

Return type TermsOfServiceUserStatus

reject (*user=None*)

Reject a terms of service.

Parameters **user** (User or None) – The User to assign the terms of service to.

Returns A newly created TermsOfServiceUserStatus object

Return type TermsOfServiceUserStatus

set_user_status (*is_accepted, user=None*)

Create a terms of service user status.

Parameters

- **is_accepted** (*bool*) – Indicates whether a use has accepted or rejected a terms of service.
- **user** (User or None) – The User to assign the terms of service to.

Returns A newly created TermsOfServiceUserStatus object

Return type TermsOfServiceUserStatus

class boxsdk.object.terms_of_service.**TermsOfServiceStatus**

Bases: *boxsdk.util.text_enum.TextEnum*

An enum of possible terms of service status

DISABLED = u'disabled'

ENABLED = u'enabled'

class boxsdk.object.terms_of_service.**TermsOfServiceType**

Bases: *boxsdk.util.text_enum.TextEnum*

An enum of possible terms of service types

EXTERNAL = u'external'

MANAGED = u'managed'

boxsdk.object.terms_of_service_user_status module

class boxsdk.object.terms_of_service_user_status.**TermsOfServiceUserStatus** (*session,*

object_id,
re-
sponse_object=None)

Bases: *boxsdk.object.base_object.BaseObject*

Represents a Box terms of service user status.

accept ()
Accept a term of service.

get_url (*args)

reject ()
Reject a term of service.

boxsdk.object.trash module

class boxsdk.object.trash.Trash(*session*, ***kwargs*)
Bases: *boxsdk.object.base_endpoint.BaseEndpoint*

Box API endpoint for performing trash related actions in Box.

get_item
Get item from trash.

Parameters

- **item** (*Item*) – The *Item* object to get info on.
- **fields** (*Iterable of unicode*) – List of fields to request

Returns Information for a trashed *Item* object.

Return type *Item*

get_items
Using limit-offset paging, get the files, folders and web links that are in the user's trash.

Parameters

- **limit** (*int* or *None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **offset** (*int* or *None*) – The offset of the item at which to begin the response.
- **fields** (*Iterable of unicode*) – List of fields to request.

Returns An iterator of the entries in the trash

Return type *BoxObjectCollection*

permanently_delete_item
Permanently delete an item that is in the trash. The item will no longer exist in Box.

Parameters **item** (*Item*) – The *Item* to delete from trash.

Returns Whether or not the delete was successful.

Return type *bool*

restore_item
Restores an item from the trash. Could be files, folders, or weblinks.

Parameters

- **item** (*Item*.) – The *Item* object to restore from trash.
- **name** (*unicode* or *None*) – The new name for this item. Only used if the item can't be restored due to name conflict.
- **parent_folder** (*Item* or *None*) – The new parent folder. Only used if the previous parent folder no longer exists.

- **fields** (*Iterable of unicode*) – List of fields to request

Returns A restored Item.

Return type Item.

boxsdk.object.upload_session module

class boxsdk.object.upload_session.**UploadSession** (*session*, *object_id*, *response_object=None*)

Bases: *boxsdk.object.base_object.BaseObject*

abort ()

Abort an upload session, cancelling the upload and removing any parts that have already been uploaded.

Returns A boolean indication success of the upload abort.

Return type *bool*

commit (*content_sha1*, *parts=None*, *file_attributes=None*, *etag=None*)

Commit a multiput upload.

Parameters

- **content_sha1** (*bytes*) – SHA-1 hash of the file contents that was uploaded.
- **parts** (*Iterable of dict or None*) – List of parts that were uploaded.
- **file_attributes** (*dict*) – A *dict* of attributes to set on the uploaded file.
- **etag** (*unicode or None*) – If specified, instruct the Box API to delete the folder only if the current version's etag matches.

Returns The newly-uploaded file object.

Return type *File*

get_chunked_uploader (*file_path*)

Instantiate the chunked upload instance and create upload session with path to file.

Parameters **file_path** (*unicode*) – The local path to the file you wish to upload.

Returns A *ChunkedUploader* object.

Return type *ChunkedUploader*

get_chunked_uploader_for_stream (*content_stream*, *file_size*)

Instantiate the chunked upload instance and create upload session.

Parameters

- **content_stream** (*File*) – File-like object containing the content of the part to be uploaded.
- **file_size** (*int*) – The size of the file that this part belongs to.

Returns A *ChunkedUploader* object.

Return type *ChunkedUploader*

get_parts (*limit=None*, *offset=None*)

Get a list of parts uploaded so far.

Parameters

- **limit** (*int* or *None*) – The maximum number of items to return per page. If not specified, then will use the server-side default.
- **offset** (*int* or *None*) – The index at which to start returning items.

Returns Returns a `BoxObjectCollection` object containing the uploaded parts.

Return type `BoxObjectCollection`

get_url (*args)

Base class override. Endpoint is a little different - it's `/files/upload_sessions`.

Return type *unicode*

upload_part_bytes (*part_bytes*, *offset*, *total_size*, *part_content_sha1=None*)

Upload a part of a file.

Parameters

- **part_bytes** (*bytes*) – Part bytes
- **offset** (*int*) – Offset, in number of bytes, of the part compared to the beginning of the file. This number should be a multiple of the part size.
- **total_size** (*int*) – The size of the file that this part belongs to.
- **part_content_sha1** (*bytes* or *None*) – SHA-1 hash of the part's content. If not specified, this will be calculated.

Returns The uploaded part record.

Return type *dict*

boxsdk.object.user module

class `boxsdk.object.user.User` (*session*, *object_id*, *response_object=None*)

Bases: `boxsdk.object.base_object.BaseObject`

Represents a Box user.

add_email_alias

Adds a new email alias to the given user's account.

Parameters **email** (*unicode*) – The email alias to add to the user.

Returns The new email alias object

Return type `EmailAlias`

delete

Delete a user's account. This user will no longer be able to access Box.

Parameters

- **notify** (*bool*) – Whether a notification should be sent about the deletion
- **force** – Whether the user should be deleted even if they still own files

Returns Whether the deletion succeeded

Return type *bool*

get_email_aliases

Gets an list of email aliases for a user.

Parameters

- **limit** (*int* or *None*) – The maximum number of users to return. If not specified, the Box API will determine an appropriate limit.
- **fields** (*Iterable* of *unicode*) – List of fields to request

Returns An iterator of the user’s email aliases

Return type `BoxObjectCollection`

get_group_memberships

Get the entries in the user group membership using limit-offset paging.

Parameters

- **limit** (*int* or *None*) – The maximum number of entries to return per page. If not specified, then will use the server-side default.
- **offset** (*int* or *None*) – The offset of the item at which to begin the response.
- **fields** (*Iterable* of *unicode*) – List of fields to request.

Returns An iterator of the entries in the groups

Return type `BoxObjectCollection`

get_storage_policy_assignment()

Get the storage policy assignment assigned to the user.

Returns The `StoragePolicyAssignment` object information

Return type `StoragePolicyAssignment`

remove_email_alias

Remove an email alias from the user.

Parameters **email_alias** (`EmailAlias`) – The email alias to remove.

Returns Whether the removal succeeded.

Return type *bool*

transfer_content

Move all of the items owned by a user into a new folder in another user’s account.

Parameters

- **destination_user** (`User`) – The id of the user to transfer content to.
- **notify** (*bool* or *None*) – Whether the destination user should receive email notification of the transfer.
- **fields** (*Iterable* of *unicode*) – Fields to return on the resulting `Folder` object

Returns A `Folder` object that was transferred to another user.

Return type `Folder`

boxsdk.object.watermark module

class `boxsdk.object.watermark.Watermark` (*response_object=None, **kwargs*)

Bases: `boxsdk.object.api_json_object.APIJSONObject`

Box API endpoint for applying watermark in a Box account.

boxsdk.object.web_link module

class boxsdk.object.web_link.**WebLink** (*session, object_id, response_object=None*)

Bases: *boxsdk.object.base_object.BaseObject*

Box API endpoint for interacting with WebLinks.

boxsdk.object.webhook module

class boxsdk.object.webhook.**Webhook** (*session, object_id, response_object=None*)

Bases: *boxsdk.object.base_object.BaseObject*

Represents a Box Webhook.

Module contents

5.1.1.5 boxsdk.pagination package

Submodules

boxsdk.pagination.box_object_collection module

class boxsdk.pagination.box_object_collection.**BoxObjectCollection** (*session, url, limit=None, fields=None, additional_params=None, return_full_pages=False*)

Bases: *_abcoll.Iterator, object*

An iterator that represents a collection of Box objects (BaseObject).

A BoxObjectCollection instance contains everything it needs in order to retrieve and page through responses from Box API endpoints that return collections of Box objects.

This class only has two public methods:

- 1). `next()`, which returns either a Page (sequence of BaseObjects) or individual BaseObjects based on the constructor argument 'return_full_pages'.
- 2). `next_pointer()`, which returns the pointer (either an offset or a marker, based on the endpoint) that will be used to retrieve the next page of Box objects. This pointer can be used when requesting new BoxObjectCollection instances that start off from a particular page, instead of from the very beginning.

next ()

Returns either a Page (a Sequence of BaseObjects) or a BaseObject depending on `self._return_full_pages`.

Invoking this method may make an API call to Box. Any exceptions that can occur while making requests may be raised in this method.

Return type Page or BaseObject

next_pointer ()

The pointer that will be used to request the next page of Box objects.

For limit-offset based paging, this is an offset. For marker-based paging, this is a marker.

The pointer only gets progressed upon successful page requests to Box.

Return type varies

boxsdk.pagination.dict_page module

class boxsdk.pagination.dict_page.DictPage (*session, response_object*)

Bases: *boxsdk.pagination.page.Page*

boxsdk.pagination.limit_offset_based_dict_collection module

class boxsdk.pagination.limit_offset_based_dict_collection.LimitOffsetBasedDictCollection (*s*)

Bases: *boxsdk.pagination.limit_offset_based_object_collection.LimitOffsetBasedObjectCollection*

Represents a limit/offset-based collection of simple dicts, which are not translated into objects.

boxsdk.pagination.limit_offset_based_object_collection module

class boxsdk.pagination.limit_offset_based_object_collection.LimitOffsetBasedObjectCollect

Bases: *boxsdk.pagination.box_object_collection.BoxObjectCollection*

An iterator of Box objects (BaseObjects) that were retrieved from a Box API endpoint that supports limit-offset type of pagination.

See <https://developer.box.com/reference#pagination> for more details.

next_pointer ()

Baseclass override.

boxsdk.pagination.marker_based_dict_collection module

class boxsdk.pagination.marker_based_dict_collection.**MarkerBasedDictCollection** (*session*, *url*, *limit=None*, *fields=None*, *additional_params=None*, *return_full_pages=False*, *marker=None*, *supports_limit_offset*)

Bases: *boxsdk.pagination.marker_based_object_collection.MarkerBasedObjectCollection*

Represents a marker-based collection of simple dicts, which are not translated into objects.

boxsdk.pagination.marker_based_object_collection module

class boxsdk.pagination.marker_based_object_collection.**MarkerBasedObjectCollection** (*session*, *url*, *limit=None*, *fields=None*, *additional_params=None*, *return_full_pages=False*, *marker=None*, *supports_limit_offset*)

Bases: *boxsdk.pagination.box_object_collection.BoxObjectCollection*

An iterator of Box objects (BaseObjects) that were retrieved from a Box API endpoint that supports marker type of pagination.

See <https://developer.box.com/reference#pagination> for more details.

next_pointer ()
Baseclass override.

boxsdk.pagination.page module

class boxsdk.pagination.page.**Page** (*session*, *response_object*)

Bases: *_abcoll.Sequence*, *object*

A sequence of BaseObjects that belong to a page returned from a paging api call.

The Page makes available detailed response data for page requests.

response_object
Return a copy of the response object for this Page.

Return type *dict*

Module contents

5.1.1.6 boxsdk.session package

Submodules

boxsdk.session.box_request module

```
class boxsdk.session.box_request.BoxRequest (url, method=u'GET', headers=NOTHING,
                                             auto_session_renewal=True,           ex-
                                             pect_json_response=True)
```

Bases: object

Represents a Box API request.

Parameters

- **url** (*unicode*) – The URL being requested.
- **method** (*unicode* or *None*) – The HTTP method to use for the request.
- **headers** (*dict* or *None*) – HTTP headers to include with the request.
- **auto_session_renewal** (*bool* or *None*) – Whether or not the session can be automatically renewed if the request fails.
- **expect_json_response** (*bool* or *None*) – Whether or not the API response must be JSON.

auto_session_renewal

expect_json_response

headers

method

url

boxsdk.session.box_response module

```
class boxsdk.session.box_response.BoxResponse (network_response)
```

Bases: object

Represents a response to a Box API request.

content

Return the content of the response body.

Return type *varies*

headers

Get the response headers.

Return type *dict*

json ()

Return the parsed JSON response.

Return type *dict* or *list* or *str* or *int* or *float*

network_response

Return the underlying network response.

Return type `NetworkResponse`

ok

Return whether or not the request was successful.

Return type `bool`

status_code

Return the HTTP status code of the response.

Return type `int`

boxsdk.session.session module

class `boxsdk.session.session.AuthorizedSession` (*oauth*, ***kwargs*)

Bases: `boxsdk.session.session.Session`

Box API authorized session. Provides auth, automatic retry of failed requests, and session renewal.

get_constructor_kwargs ()

class `boxsdk.session.session.Session` (*network_layer=None*, *default_headers=None*, *translator=None*, *default_network_request_kwargs=None*, *api_config=None*, *client_config=None*)

Bases: `object`

Box API session. Provides automatic retry of failed requests.

api_config

Return type `API`

as_user (*user*)

Returns a new session object with default headers set up to make requests as the specified user.

Parameters **user** (`User`) – The user to impersonate when making API requests.

box_request_constructor

Get the constructor for the container class representing an API request

box_response_constructor

Get the constructor for the container class representing an API response

client_config

Return type `Client`

delete (*url*, ***kwargs*)

Make a DELETE request to the Box API.

Parameters **url** (*unicode*) – The URL for the request.

get (*url*, ***kwargs*)

Make a GET request to the Box API.

Parameters **url** (*unicode*) – The URL for the request.

get_constructor_kwargs ()

get_url (*endpoint*, **args*)

Return the URL for the given Box API endpoint.

Parameters

- **endpoint** (*url*) – The name of the endpoint.
- **args** (*Iterable*) – Additional parts of the endpoint URL.

Return type *unicode***options** (*url*, ***kwargs*)

Make an OPTIONS request to the Box API.

Parameters **url** (*unicode*) – The URL for the request.**post** (*url*, ***kwargs*)

Make a POST request to the Box API.

Parameters **url** (*unicode*) – The URL for the request.**put** (*url*, ***kwargs*)

Make a PUT request to the Box API.

Parameters **url** (*unicode*) – The URL for the request.**request** (*method*, *url*, ***kwargs*)

Make a request to the Box API.

Parameters

- **method** (*unicode*) – The HTTP verb for the request.
- **url** (*unicode*) – The URL for the request.

translatorThe translator used for translating Box API JSON responses into *BaseAPIJSONObject* smart objects.**Return type** *Translator***with_default_network_request_kwargs** (*extra_network_parameters*)**with_shared_link** (*shared_link*, *shared_link_password=None*)

Returns a new session object with default headers set up to make requests using the shared link for auth.

Parameters

- **shared_link** (*unicode*) – The shared link.
- **shared_link_password** (*unicode*) – The password for the shared link.

Module contents**5.1.1.7 boxsdk.util package****Submodules****boxsdk.util.api_call_decorator module****class** `boxsdk.util.api_call_decorator.APICallWrapper` (*func_that_makes_an_api_call*)Bases: `object``boxsdk.util.api_call_decorator.api_call` (*method*)Designates the decorated method as one that makes a Box API call. The decorated method can then accept a new keyword argument *extra_network_parameters*, a dictionary of key-value pairs to be passed to the network layer for API calls made by the method.

The decorated method must belong to a subclass of *Cloneable* as using this decorator and then passing a *extra_network_parameters* parameter to the method will cause the object's clone method to be called.

Parameters `method` (*callable*) – The method to decorate.

Returns A wrapped method that can pass extra request data to the network layer.

Return type *APICallWrapper*

boxsdk.util.chain_map module

class `boxsdk.util.chain_map.ChainMap` (**maps*)

Bases: `chainmap.chainmap.ChainMap`, `object`

A ChainMap groups multiple dicts (or other mappings) together to create a single, updateable view.

The underlying mappings are stored in a list. That list is public and can be accessed or updated using the *maps* attribute. There is no other state.

Lookups search the underlying mappings successively until a key is found. In contrast, writes, updates, and deletions only operate on the first mapping.

boxsdk.util.compat module

`boxsdk.util.compat.with_metaclass` (*meta*, **bases*, ***with_metaclass_kwargs*)

Extends the behavior of `six.with_metaclass`.

The normal usage (expanded to include temporaries, to make the illustration easier) is:

```
temporary_class = six.with_metaclass(meta, *bases)
temporary_metaclass = type(temporary_class)

class Subclass(temporary_class):
    ...

SubclassMeta = type(Subclass)
```

In this example:

- `temporary_class` is a class with `(object,)` as its bases.
- `temporary_metaclass` is a metaclass with `(meta,)` as its bases.
- `Subclass` is a class with `bases` as its bases.
- `SubclassMeta` is `meta`.

`six.with_metaclass()` is defined in such a way that it can make sure that `Subclass` has the correct metaclass and bases, while only using syntax which is common to both Python 2 and Python 3. `temporary_metaclass()` returns an instance of `meta`, rather than an instance of itself / a subclass of `temporary_class`, which is how `SubclassMeta` ends up being `meta`, and how the temporaries don't appear anywhere in the final subclass.

There are two problems with the current (as of `six==1.10.0`) implementation of `six.with_metaclass()`, which this function solves.

`six.with_metaclass()` does not define `__prepare__()` on the temporary metaclass. This means that `meta.__prepare__()` gets called directly, with `bases` set to `(object,)`. If it needed to actually receive `bases`, then errors might occur. For example, this was a problem when used with `enum.EnumMeta` in

Python 3.6. Here we make sure that `__prepare__()` is defined on the temporary metaclass, and pass bases to `meta.__prepare__()`. This is fixed in `six` $\geq 1.11.0$ by PR #178 [1].

Since `temporary_class` doesn't have the correct bases, in theory this could cause other problems, besides the previous one, in certain edge cases. To make sure that doesn't become a problem, we make sure that `temporary_class` has bases as its bases, just like the final class.

[1] <<https://github.com/benjaminp/six/pull/178>>

boxsdk.util.enum module

class `boxsdk.util.enum.ExtendableEnumMeta`

Bases: `enum.EnumMeta`

A metaclass for enum hierarchies.

This allows you to define hierarchies such as this:

```
from box.util.compat import with_metaclass
class EnumBase(with_metaclass(ExtendableEnumMeta, Enum)): pass
class Enum1(EnumBase): A = 'A'
class Enum2(EnumBase): pass
class Enum2_1(Enum2): B = 'B'
class Enum2_2(Enum2): C = 'C'
```

and have all members be accessible on `EnumBase` (as well as have all members of `Enum2_1` and `Enum2_2` be available on `Enum2`) as if they had been defined there.

Non-leaf classes still may not have members directly defined on them, as with standard enums.

Most of the usual enum magic methods are extended: `__contains__`, `__dir__`, `__getitem__`, `__getattr__`, `__iter__`, `__len__`, and `__reversed__`. Only `__new__` is not extended; instead, a new method `lookup` is provided. The `__members__` property is also extended.

lookup (*value*)

Custom value lookup, which does recursive lookups on subclasses.

If this is a leaf enum class with defined members, this acts the same as `__new__()`.

But if this is a base class with no defined members of its own, it tries doing a value lookup on all its subclasses until it finds the value.

NOTE: Because of the implementation details of `Enum`, this must be a new classmethod, and can't be implemented as `__new__()` [1].

[1] <<https://docs.python.org/3.5/library/enum.html#finer-points>>

Parameters `value` (*varies*) – The value to look up. Can be a value, or an enum instance.

Raises `ValueError` if the value isn't found anywhere.

boxsdk.util.json module

`boxsdk.util.json.is_json_response` (*network_response*)

Return whether or not the network response content is json.

Parameters `network_response` (`NetworkResponse`) – The response from the Box API.

boxsdk.util.log module

`boxsdk.util.log.setup_logging` (*stream_or_file*=<object object>, *debug*=False, *name*=None)

Create a logger for communicating with the user or writing to log files. Sets the level to INFO or DEBUG, depending on the debug flag.

If a stream or file is passed (or None is passed to *stream_or_file*), then a handler to that stream or file (stdout for None) is added to the logger.

Parameters

- **stream_or_file** (*unicode* or *file* or None) – The destination of the log messages. If None, stdout will be used.
- **debug** (*bool* or None) – Whether or not the logger will be at the DEBUG level (if False, the logger will be at the INFO level).
- **name** (*unicode* or None) – The logging channel. If None, a root logger will be created.

`boxsdk.util.log.sanitize_dictionary` (*dictionary*)

Get a copy of a dictionary that has sensitive information redacted. Should be called on objects that will be logged or printed.

Parameters *dictionary* (Mapping) – Dictionary that may contain sensitive information.

Returns Copy of the dictionary with sensitive information redacted.

Return type *dict*

boxsdk.util.lru_cache module

class `boxsdk.util.lru_cache.LRUCache` (*capacity*=512)

Bases: object

get (*key*)

Look up the value in cache using the associated key. Returns the value if found. Raises `KeyError` otherwise.

Parameters *key* (*unicode*) – The key used to look up the cache.

Returns The value associated with the key if exists.

Raises `KeyError` if the key doesn't exist.

set (*key*, *value*=None)

Store the key-value pair to cache.

Parameters

- **key** (*unicode*) – The key associated with the value to be stored. It's used to look up the cache.
- **value** (*varies*) – The value to be stored.

boxsdk.util.multipart_stream module

class `boxsdk.util.multipart_stream.MultipartStream` (*data*, *files*)

Bases: `requests_toolbelt.multipart.encoder.MultipartEncoder`

Subclass of the `requests_toolbelt`'s `MultipartEncoder` that ensures that data is encoded before files. This allows a server to process information in the data before receiving the file bytes.

boxsdk.util.shared_link module

`boxsdk.util.shared_link.get_shared_link_header` (*shared_link*, *password=None*)

Gets the HTTP header required to use a shared link to grant access to a shared item.

Parameters

- **shared_link** (*unicode*) – The shared link.
- **password** (*unicode*) – The password for the shared link.

Returns The item referred to by the shared link.

Return type `Item`

boxsdk.util.text_enum module

class `boxsdk.util.text_enum.TextEnum`

Bases: `unicode`, `enum.Enum`

boxsdk.util.translator module

class `boxsdk.util.translator.Translator` (**translation_maps*, ***kwargs*)

Bases: `chainmap.chainmap.ChainMap`

Translate item responses from the Box API to Box objects.

Also acts as a `Mapping` from type names to Box object classes.

There exists a global default *Translator*, containing the default API object classes defined by the SDK. Custom *Translator* instances can be created to extend the default *Translator* with custom subclasses.

A *Translator* is a `ChainMap`, so that one translator can “extend” others. The most common scenario would be a custom, non-global *Translator* that extends only the default translator, to register 0 or more new classes. But more complex inheritance is also allowed, in case that is useful.

get (*key*, *default=None*)

Get the box object class associated with the given type name.

Parameters

- **key** (*unicode*) – The type name to be translated.
- **default** (`BaseAPIJSONObjectMeta`) – (optional) The default Box object class to return. Defaults to *BaseObject*.

Return type `BaseAPIJSONObjectMeta`

register (*type_name*, *box_cls*)

Associate a Box object class to handle Box API item responses with the given type name.

Parameters

- **type_name** (*unicode*) – The type name to be registered.
- **box_cls** (`BaseAPIJSONObjectMeta`) – The Box object class, which will be associated with the type name provided.

translate (*session*, *response_object*)

Translate a given API response object into SDK classes, recursively translating any subobjects.

Parameters

- **session** (class:*Session*) – The SDK session to use for any objects that require a session (i.e. classes that make API calls)
- **response_object** (*dict*) – The JSON response object from the API, which will be translated

Returns The translated object

Module contents

5.1.2 Submodules

5.1.3 boxsdk.config module

class boxsdk.config.API

Bases: object

Configuration object containing the URLs for the Box API.

BASE_API_URL = u'https://api.box.com/2.0'

OAUTH2_API_URL = u'https://api.box.com/oauth2'

OAUTH2_AUTHORIZE_URL = u'https://account.box.com/api/oauth2/authorize'

UPLOAD_URL = u'https://upload.box.com/api/2.0'

class boxsdk.config.Client

Bases: object

Configuration object containing the user agent string.

BOX_UA_STRING = u'agent=box-python-sdk/2.0.0; env=python/2.7.12'

USER_AGENT_STRING = u'box-python-sdk-2.0.0'

VERSION = u'2.0.0'

5.1.4 boxsdk.exception module

exception boxsdk.exception.BoxException

Bases: exceptions.Exception

Base class exception for all errors raised from the SDK.

exception boxsdk.exception.BoxAPIException(*status*, *code=None*, *message=None*, *request_id=None*, *headers=None*, *url=None*, *method=None*, *context_info=None*, *network_response=None*)

Bases: *boxsdk.exception.BoxException*

Exception raised from the box session layer.

Parameters

- **status** (*int*) – HTTP status code of the failed response
- **code** (*unicode* or None) – The 'code' field of the failed response
- **message** (*unicode* or None) – A message to associate with the exception, e.g. 'message' field of the json in the failed response

- **request_id** (*unicode* or *None*) – The ‘request_id’ field of the json in the failed response
- **headers** (*dict*) – The HTTP headers in the failed response
- **url** (*unicode*) – The url which raised the exception
- **method** (*unicode*) – The HTTP verb used to make the request.
- **context_info** (*dict* or *None*) – The context_info returned in the failed response.
- **network_response** (*Requests Response*) – The failed response

code

context_info

headers

message

method

network_response

request_id

status

url

```
exception boxsdk.exception.BoxOAuthException(status, message=None, url=None,
                                             method=None, network_response=None,
                                             code=None)
```

Bases: *boxsdk.exception.BoxException*

Exception raised during auth.

Parameters

- **status** (*int*) – HTTP status code of the auth response
- **message** (*unicode*) – A message to associate with the exception, e.g. HTTP content of the auth response
- **url** (*unicode*) – The url which raised the exception
- **method** (*unicode*) – The HTTP verb used to make the request.
- **network_response** (*NetworkResponse*) – The network response for the request.
- **code** (*unicode* or *None*) – The ‘code’ field of the failed response

code

message

method

network_response

status

url

```
exception boxsdk.exception.BoxNetworkException
```

Bases: *boxsdk.exception.BoxException*

Exception raised from the network layer.

5.1.5 boxsdk.version module

5.1.6 Module contents

CHAPTER 6

Indices and tables

- `genindex`
- `modindex`
- `search`

b

boxsdk, 82
boxsdk.auth, 14
boxsdk.auth.cooperatively_managed_oauth2, 9
boxsdk.auth.developer_token_auth, 9
boxsdk.auth.jwt_auth, 10
boxsdk.auth.oauth2, 11
boxsdk.auth.redis_managed_jwt_auth, 13
boxsdk.auth.redis_managed_oauth2, 14
boxsdk.auth.remote_managed_oauth2, 14
boxsdk.client, 27
boxsdk.client.client, 14
boxsdk.client.developer_token_client, 27
boxsdk.client.development_client, 27
boxsdk.client.logging_client, 27
boxsdk.config, 80
boxsdk.exception, 80
boxsdk.network, 30
boxsdk.network.default_network, 27
boxsdk.network.network_interface, 29
boxsdk.object, 70
boxsdk.object.api_json_object, 30
boxsdk.object.base_api_json_object, 31
boxsdk.object.base_endpoint, 32
boxsdk.object.base_object, 32
boxsdk.object.cloneable, 33
boxsdk.object.collaboration, 34
boxsdk.object.collaboration_whitelist, 35
boxsdk.object.collaboration_whitelist_entry, 36
boxsdk.object.collaboration_whitelist_exempt_target, 36
boxsdk.object.collection, 36
boxsdk.object.comment, 37
boxsdk.object.device_pinner, 37
boxsdk.object.email_alias, 37
boxsdk.object.enterprise, 37
boxsdk.object.event, 38
boxsdk.object.events, 38
boxsdk.object.file, 40
boxsdk.object.file_version, 45
boxsdk.object.file_version_retention, 45
boxsdk.object.folder, 45
boxsdk.object.group, 49
boxsdk.object.group_membership, 50
boxsdk.object.invite, 50
boxsdk.object.item, 50
boxsdk.object.legal_hold, 54
boxsdk.object.legal_hold_policy, 54
boxsdk.object.legal_hold_policy_assignment, 55
boxsdk.object.metadata, 55
boxsdk.object.metadata_cascade_policy, 57
boxsdk.object.metadata_template, 58
boxsdk.object.recent_item, 60
boxsdk.object.retention_policy, 60
boxsdk.object.retention_policy_assignment, 60
boxsdk.object.search, 61
boxsdk.object.storage_policy, 63
boxsdk.object.storage_policy_assignment, 63
boxsdk.object.task, 63
boxsdk.object.task_assignment, 64
boxsdk.object.terms_of_service, 64
boxsdk.object.terms_of_service_user_status, 65
boxsdk.object.trash, 66
boxsdk.object.upload_session, 67
boxsdk.object.user, 68
boxsdk.object.watermark, 69
boxsdk.object.web_link, 70
boxsdk.object.webhook, 70
boxsdk.pagination, 73

- boxsdk.pagination.box_object_collection,
70
- boxsdk.pagination.dict_page, 71
- boxsdk.pagination.limit_offset_based_dict_collection,
71
- boxsdk.pagination.limit_offset_based_object_collection,
71
- boxsdk.pagination.marker_based_dict_collection,
72
- boxsdk.pagination.marker_based_object_collection,
72
- boxsdk.pagination.page, 72
- boxsdk.session, 75
- boxsdk.session.box_request, 73
- boxsdk.session.box_response, 73
- boxsdk.session.session, 74
- boxsdk.util, 80
- boxsdk.util.api_call_decorator, 75
- boxsdk.util.chain_map, 76
- boxsdk.util.compat, 76
- boxsdk.util.enum, 77
- boxsdk.util.json, 77
- boxsdk.util.log, 78
- boxsdk.util.lru_cache, 78
- boxsdk.util.multipart_stream, 78
- boxsdk.util.shared_link, 79
- boxsdk.util.text_enum, 79
- boxsdk.util.translator, 79
- boxsdk.version, 82

A

- abort() (boxsdk.object.upload_session.UploadSession method), 67
- accept (boxsdk.object.collaboration.Collaboration attribute), 34
- accept() (boxsdk.object.terms_of_service.TermsOfService method), 64
- accept() (boxsdk.object.terms_of_service_user_status.TermsOfServiceUserStatus method), 65
- ACCEPTED (boxsdk.object.collaboration.CollaborationStatus attribute), 35
- access_token (boxsdk.auth.oauth2.OAuth2 attribute), 11
- access_token_used (boxsdk.network.default_network.DefaultNetworkResponse attribute), 28
- access_token_used (boxsdk.network.network_interface.NetworkResponse attribute), 30
- add() (boxsdk.object.metadata.MetadataUpdate method), 56
- add_collaborator (boxsdk.object.folder.Folder attribute), 45
- add_comment (boxsdk.object.file.File attribute), 40
- add_domain (boxsdk.object.collaboration_whitelist.CollaborationWhitelist attribute), 35
- add_email_alias (boxsdk.object.user.User attribute), 68
- add_enum_option() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 58
- add_exemption (boxsdk.object.collaboration_whitelist.CollaborationWhitelist attribute), 35
- add_field() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59
- add_filter() (boxsdk.object.search.MetadataSearchFilters method), 61
- add_member (boxsdk.object.group.Group attribute), 49
- add_operation() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59
- add_range_filter() (boxsdk.object.search.MetadataSearchFilters method), 61
- add_to_collection (boxsdk.object.item.Item attribute), 50
- add_value_based_filter() (boxsdk.object.search.MetadataSearchFilters method), 61
- ADMIN (boxsdk.object.group.GroupRole attribute), 50
- ADMIN_LOGS (boxsdk.object.events.EnterpriseEventsStreamType attribute), 38
- ADMIN_LOGS (boxsdk.object.events.EventsStreamType attribute), 40
- ALL (boxsdk.object.events.EventsStreamType attribute), 40
- ALL (boxsdk.object.events.UserEventsStreamType attribute), 40
- API (class in boxsdk.config), 80
- api_call() (in module boxsdk.util.api_call_decorator), 75
- api_config (boxsdk.auth.oauth2.OAuth2 attribute), 11
- api_config (boxsdk.session.session.Session attribute), 74
- APICallWrapper (class in boxsdk.util.api_call_decorator), 75
- APIJSONObject (class in boxsdk.object.api_json_object), 30
- APIJSONObjectMeta (class in boxsdk.object.api_json_object), 31
- apply_watermark (boxsdk.object.item.Item attribute), 50
- APPROVED (boxsdk.object.task_assignment.ResolutionState attribute), 64
- as_dict() (boxsdk.object.search.MetadataSearchFilter method), 61
- as_list() (boxsdk.object.search.MetadataSearchFilters method), 61
- as_user() (boxsdk.object.cloneable.Cloneable method), 33
- as_user() (boxsdk.session.session.Session method), 74
- assign (boxsdk.object.legal_hold_policy.LegalHoldPolicy attribute), 54
- assign (boxsdk.object.retention_policy.RetentionPolicy attribute), 60
- assign (boxsdk.object.task.Task attribute), 63
- assign() (boxsdk.object.storage_policy.StoragePolicy method), 63
- assign_with_login (boxsdk.object.task.Task attribute), 64
- assignments (boxsdk.object.retention_policy.RetentionPolicy attribute), 60

- auth (boxsdk.client.client.Client attribute), 14
 - authenticate() (boxsdk.auth.oauth2.OAuth2 method), 11
 - authenticate_app_user() (boxsdk.auth.jwt_auth.JWTAuth method), 10
 - authenticate_instance() (boxsdk.auth.jwt_auth.JWTAuth method), 10
 - authenticate_user() (boxsdk.auth.jwt_auth.JWTAuth method), 10
 - authorized_session_class (boxsdk.client.client.Client attribute), 15
 - AuthorizedSession (class in boxsdk.session.session), 74
 - auto_session_renewal (boxsdk.session.box_request.BoxRequest attribute), 73
- ## B
- BASE_API_URL (boxsdk.config.API attribute), 80
 - BaseAPIJSONObject (class in boxsdk.object.base_api_json_object), 31
 - BaseAPIJSONObjectMeta (class in boxsdk.object.base_api_json_object), 31
 - BaseEndpoint (class in boxsdk.object.base_endpoint), 32
 - BaseObject (class in boxsdk.object.base_object), 32
 - BOTH (boxsdk.object.collaboration_whitelist.WhitelistDirection attribute), 36
 - box_request_constructor (boxsdk.session.session.Session attribute), 74
 - box_response_constructor (boxsdk.session.session.Session attribute), 74
 - BOX_UA_STRING (boxsdk.config.Client attribute), 80
 - BoxAPIException, 80
 - BoxException, 80
 - BoxNetworkException, 81
 - BoxOAuthException, 81
 - BoxObjectCollection (class in boxsdk.pagination.box_object_collection), 70
 - BoxRequest (class in boxsdk.session.box_request), 73
 - BoxResponse (class in boxsdk.session.box_response), 73
 - boxsdk (module), 82
 - boxsdk.auth (module), 14
 - boxsdk.auth.cooperatively_managed_oauth2 (module), 9
 - boxsdk.auth.developer_token_auth (module), 9
 - boxsdk.auth.jwt_auth (module), 10
 - boxsdk.auth.oauth2 (module), 11
 - boxsdk.auth.redis_managed_jwt_auth (module), 13
 - boxsdk.auth.redis_managed_oauth2 (module), 14
 - boxsdk.auth.remote_managed_oauth2 (module), 14
 - boxsdk.client (module), 27
 - boxsdk.client.client (module), 14
 - boxsdk.client.developer_token_client (module), 27
 - boxsdk.client.development_client (module), 27
 - boxsdk.client.logging_client (module), 27
 - boxsdk.config (module), 80
 - boxsdk.exception (module), 80
 - boxsdk.network (module), 30
 - boxsdk.network.default_network (module), 27
 - boxsdk.network.network_interface (module), 29
 - boxsdk.object (module), 70
 - boxsdk.object.api_json_object (module), 30
 - boxsdk.object.base_api_json_object (module), 31
 - boxsdk.object.base_endpoint (module), 32
 - boxsdk.object.base_object (module), 32
 - boxsdk.object.cloneable (module), 33
 - boxsdk.object.collaboration (module), 34
 - boxsdk.object.collaboration_whitelist (module), 35
 - boxsdk.object.collaboration_whitelist_entry (module), 36
 - boxsdk.object.collaboration_whitelist_exempt_target (module), 36
 - boxsdk.object.collection (module), 36
 - boxsdk.object.comment (module), 37
 - boxsdk.object.device_pinner (module), 37
 - boxsdk.object.email_alias (module), 37
 - boxsdk.object.enterprise (module), 37
 - boxsdk.object.event (module), 38
 - boxsdk.object.events (module), 38
 - boxsdk.object.file (module), 40
 - boxsdk.object.file_version (module), 45
 - boxsdk.object.file_version_retention (module), 45
 - boxsdk.object.folder (module), 45
 - boxsdk.object.group (module), 49
 - boxsdk.object.group_membership (module), 50
 - boxsdk.object.invite (module), 50
 - boxsdk.object.item (module), 50
 - boxsdk.object.legal_hold (module), 54
 - boxsdk.object.legal_hold_policy (module), 54
 - boxsdk.object.legal_hold_policy_assignment (module), 55
 - boxsdk.object.metadata (module), 55
 - boxsdk.object.metadata_cascade_policy (module), 57
 - boxsdk.object.metadata_template (module), 58
 - boxsdk.object.recent_item (module), 60
 - boxsdk.object.retention_policy (module), 60
 - boxsdk.object.retention_policy_assignment (module), 60
 - boxsdk.object.search (module), 61
 - boxsdk.object.storage_policy (module), 63
 - boxsdk.object.storage_policy_assignment (module), 63
 - boxsdk.object.task (module), 63
 - boxsdk.object.task_assignment (module), 64
 - boxsdk.object.terms_of_service (module), 64
 - boxsdk.object.terms_of_service_user_status (module), 65
 - boxsdk.object.trash (module), 66
 - boxsdk.object.upload_session (module), 67
 - boxsdk.object.user (module), 68
 - boxsdk.object.watermark (module), 69
 - boxsdk.object.web_link (module), 70
 - boxsdk.object.webhook (module), 70
 - boxsdk.pagination (module), 73

boxsdk.pagination.box_object_collection (module), 70
 boxsdk.pagination.dict_page (module), 71
 boxsdk.pagination.limit_offset_based_dict_collection (module), 71
 boxsdk.pagination.limit_offset_based_object_collection (module), 71
 boxsdk.pagination.marker_based_dict_collection (module), 72
 boxsdk.pagination.marker_based_object_collection (module), 72
 boxsdk.pagination.page (module), 72
 boxsdk.session (module), 75
 boxsdk.session.box_request (module), 73
 boxsdk.session.box_response (module), 73
 boxsdk.session.session (module), 74
 boxsdk.util (module), 80
 boxsdk.util.api_call_decorator (module), 75
 boxsdk.util.chain_map (module), 76
 boxsdk.util.compat (module), 76
 boxsdk.util.enum (module), 77
 boxsdk.util.json (module), 77
 boxsdk.util.log (module), 78
 boxsdk.util.lru_cache (module), 78
 boxsdk.util.multipart_stream (module), 78
 boxsdk.util.shared_link (module), 79
 boxsdk.util.text_enum (module), 79
 boxsdk.util.translator (module), 79
 boxsdk.version (module), 82

C

cascade_metadata (boxsdk.object.folder.Folder attribute), 46
 CascadePolicyConflictResolution (class in boxsdk.object.metadata_cascade_policy), 57
 ChainMap (class in boxsdk.util.chain_map), 76
 CHANGES (boxsdk.object.events.EventsStreamType attribute), 40
 CHANGES (boxsdk.object.events.UserEventsStreamType attribute), 40
 Client (class in boxsdk.client.client), 14
 Client (class in boxsdk.config), 80
 client_config (boxsdk.session.session.Session attribute), 74
 clone() (boxsdk.client.client.Client method), 15
 clone() (boxsdk.object.base_endpoint.BaseEndpoint method), 32
 clone() (boxsdk.object.base_object.BaseObject method), 32
 clone() (boxsdk.object.cloneable.Cloneable method), 33
 clone() (boxsdk.object.metadata.Metadata method), 55
 Cloneable (class in boxsdk.object.cloneable), 33
 close() (boxsdk.auth.oauth2.OAuth2 method), 12
 closed (boxsdk.auth.oauth2.OAuth2 attribute), 12

closing() (boxsdk.auth.oauth2.OAuth2 method), 12
 CO_OWNER (boxsdk.object.collaboration.CollaborationRole attribute), 34
 code (boxsdk.exception.BoxAPIException attribute), 81
 code (boxsdk.exception.BoxOAuthException attribute), 81
 collaborate (boxsdk.object.item.Item attribute), 50
 collaborate_with_login (boxsdk.object.item.Item attribute), 51
 Collaboration (class in boxsdk.object.collaboration), 34
 collaboration() (boxsdk.client.client.Client method), 15
 collaboration_whitelist() (boxsdk.client.client.Client method), 15
 collaboration_whitelist_entry() (boxsdk.client.client.Client method), 15
 collaboration_whitelist_exempt_target() (boxsdk.client.client.Client method), 15
 CollaborationRole (class in boxsdk.object.collaboration), 34
 CollaborationStatus (class in boxsdk.object.collaboration), 35
 CollaborationWhitelist (class in boxsdk.object.collaboration_whitelist), 35
 CollaborationWhitelistEntry (class in boxsdk.object.collaboration_whitelist_entry), 36
 CollaborationWhitelistExemptTarget (class in boxsdk.object.collaboration_whitelist_exempt_target), 36
 Collection (class in boxsdk.object.collection), 36
 collection() (boxsdk.client.client.Client method), 15
 collections (boxsdk.client.client.Client attribute), 15
 Comment (class in boxsdk.object.comment), 37
 comment() (boxsdk.client.client.Client method), 15
 commit() (boxsdk.object.upload_session.UploadSession method), 67
 COMPLETED (boxsdk.object.task_assignment.ResolutionState attribute), 64
 construct_params_from_message() (boxsdk.object.comment.Comment static method), 37
 content (boxsdk.network.default_network.DefaultNetworkResponse attribute), 28
 content (boxsdk.network.network_interface.NetworkResponse attribute), 30
 content (boxsdk.object.file.File attribute), 40
 content (boxsdk.session.box_response.BoxResponse attribute), 73
 context_info (boxsdk.exception.BoxAPIException attribute), 81
 CooperativelyManagedOAuth2 (class in boxsdk.auth.cooperatively_managed_oauth2), 9
 CooperativelyManagedOAuth2Mixin (class in

- boxsdk.auth.cooperatively_managed_oauth2), 9
 - copy (boxsdk.object.item.Item attribute), 51
 - copy() (boxsdk.object.file.File method), 40
 - create (boxsdk.object.metadata.Metadata attribute), 55
 - create_assignment() (boxsdk.object.storage_policy.StoragePolicy method), 63
 - create_group (boxsdk.client.client.Client attribute), 16
 - create_legal_hold_policy (boxsdk.client.client.Client attribute), 16
 - create_metadata_template (boxsdk.client.client.Client attribute), 16
 - create_retention_policy (boxsdk.client.client.Client attribute), 17
 - create_shared_link (boxsdk.object.item.Item attribute), 51
 - create_subfolder (boxsdk.object.folder.Folder attribute), 46
 - create_task (boxsdk.object.file.File attribute), 41
 - create_terms_of_service() (boxsdk.client.client.Client method), 17
 - create_upload_session() (boxsdk.object.file.File method), 41
 - create_upload_session() (boxsdk.object.folder.Folder method), 46
 - create_user (boxsdk.client.client.Client attribute), 17
 - create_web_link (boxsdk.object.folder.Folder attribute), 46
 - create_webhook (boxsdk.client.client.Client attribute), 17
- D**
- DATE (boxsdk.object.metadata_template.MetadataFieldType attribute), 58
 - DefaultNetwork (class in boxsdk.network.default_network), 27
 - DefaultNetworkResponse (class in boxsdk.network.default_network), 28
 - delete (boxsdk.object.base_object.BaseObject attribute), 32
 - delete (boxsdk.object.folder.Folder attribute), 46
 - delete (boxsdk.object.item.Item attribute), 52
 - delete (boxsdk.object.metadata.Metadata attribute), 56
 - delete (boxsdk.object.user.User attribute), 68
 - delete() (boxsdk.session.session.Session method), 74
 - delete_version (boxsdk.object.file.File attribute), 41
 - delete_watermark (boxsdk.object.item.Item attribute), 52
 - DeveloperTokenAuth (class in boxsdk.auth.developer_token_auth), 9
 - DeveloperTokenClient (class in boxsdk.client.developer_token_client), 27
 - DevelopmentClient (class in boxsdk.client.development_client), 27
 - device_pinner() (boxsdk.client.client.Client method), 18
 - device_pinner() (boxsdk.client.client.Client method), 18
 - DevicePinner (class in boxsdk.object.device_pinner), 37
 - DictPage (class in boxsdk.pagination.dict_page), 71
 - DISABLED (boxsdk.object.terms_of_service.TermsOfServiceStatus attribute), 65
 - download_to (boxsdk.object.file.File attribute), 41
 - DiscoveryScopeToken (boxsdk.client.client.Client attribute), 18
- E**
- edit (boxsdk.object.comment.Comment attribute), 37
 - edit_enum_option_key() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59
 - edit_field() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59
 - edit_template() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59
 - EDITOR (boxsdk.object.collaboration.CollaborationRole attribute), 34
 - email_alias() (boxsdk.client.client.Client method), 18
 - EmailAlias (class in boxsdk.object.email_alias), 37
 - ENABLED (boxsdk.object.terms_of_service.TermsOfServiceStatus attribute), 65
 - ENTER_TOKEN_PROMPT (boxsdk.auth.developer_token_auth.DeveloperTokenAuth attribute), 9
 - ENTERPRISE (boxsdk.object.search.SearchScope attribute), 62
 - Enterprise (class in boxsdk.object.enterprise), 37
 - enterprise() (boxsdk.client.client.Client method), 18
 - EnterpriseEventsStreamType (class in boxsdk.object.events), 38
 - ENUM (boxsdk.object.metadata_template.MetadataFieldType attribute), 58
 - ERROR_RESPONSE_FORMAT (boxsdk.network.default_network.DefaultNetworkResponse attribute), 28
 - Event (class in boxsdk.object.event), 38
 - Events (class in boxsdk.object.events), 38
 - events() (boxsdk.client.client.Client method), 19
 - EventsStreamType (class in boxsdk.object.events), 39
 - EXCEPTION_FORMAT (boxsdk.network.default_network.DefaultNetwork attribute), 27
 - expect_json_response (boxsdk.session.box_request.BoxRequest attribute), 73
 - ExtendableEnumMeta (class in boxsdk.util.enum), 77
 - EXTERNAL (boxsdk.object.terms_of_service.TermsOfServiceType attribute), 65
- F**
- File (class in boxsdk.object.file), 40
 - file() (boxsdk.client.client.Client method), 19
 - file_version() (boxsdk.client.client.Client method), 19

file_version_retention() (boxsdk.client.client.Client method), 19

FileVersion (class in boxsdk.object.file_version), 45

FileVersionRetention (class in boxsdk.object.file_version_retention), 45

FLOAT (boxsdk.object.metadata_template.MetadataFieldType attribute), 58

Folder (class in boxsdk.object.folder), 45

folder() (boxsdk.client.client.Client method), 19

FolderSyncState (class in boxsdk.object.folder), 48

force_apply (boxsdk.object.metadata_cascade_policy.MetadataCascadePolicy attribute), 57

from_settings_dictionary() (boxsdk.auth.jwt_auth.JWTAuth class method), 11

from_settings_file() (boxsdk.auth.jwt_auth.JWTAuth class method), 11

G

generate_events_with_long_polling (boxsdk.object.events.Events attribute), 38

get (boxsdk.object.base_object.BaseObject attribute), 32

get (boxsdk.object.item.Item attribute), 52

get (boxsdk.object.metadata.Metadata attribute), 56

get() (boxsdk.session.session.Session method), 74

get() (boxsdk.util.lru_cache.LRUCache method), 78

get() (boxsdk.util.translator.Translator method), 79

get_all_metadata() (boxsdk.object.item.Item method), 52

get_assignments (boxsdk.object.legal_hold_policy.LegalHoldPolicy attribute), 55

get_assignments (boxsdk.object.task.Task attribute), 64

get_authorization_url() (boxsdk.auth.oauth2.OAuth2 method), 12

get_chunked_uploader (boxsdk.object.file.File attribute), 41

get_chunked_uploader (boxsdk.object.folder.Folder attribute), 46

get_chunked_uploader() (boxsdk.object.upload_session.UploadSession method), 67

get_chunked_uploader_for_stream() (boxsdk.object.upload_session.UploadSession method), 67

get_collaborations (boxsdk.object.group.Group attribute), 49

get_collaborations (boxsdk.object.item.Item attribute), 52

get_comments (boxsdk.object.file.File attribute), 42

get_constructor_kwargs() (boxsdk.session.session.AuthorizedSession method), 74

get_constructor_kwargs() (boxsdk.session.session.Session method), 74

get_current_enterprise (boxsdk.client.client.Client attribute), 19

get_download_url (boxsdk.object.file.File attribute), 42

get_email_aliases (boxsdk.object.user.User attribute), 68

get_embed_url (boxsdk.object.file.File attribute), 42

get_entries (boxsdk.object.collaboration_whitelist.CollaborationWhitelist attribute), 35

get_events (boxsdk.object.events.Events attribute), 38

get_exemptions (boxsdk.object.collaboration_whitelist.CollaborationWhitelist attribute), 35

get_file_version_legal_holds (boxsdk.object.legal_hold_policy.LegalHoldPolicy attribute), 55

get_file_version_retentions (boxsdk.client.client.Client attribute), 19

get_group_memberships (boxsdk.object.user.User attribute), 69

get_groups (boxsdk.client.client.Client attribute), 20

get_item (boxsdk.object.trash.Trash attribute), 66

get_items (boxsdk.object.collection.Collection attribute), 36

get_items (boxsdk.object.folder.Folder attribute), 47

get_items (boxsdk.object.trash.Trash attribute), 66

get_latest_stream_position (boxsdk.object.events.Events attribute), 39

get_legal_hold_policies (boxsdk.client.client.Client attribute), 20

get_long_poll_options (boxsdk.object.events.Events attribute), 39

get_memberships (boxsdk.object.group.Group attribute), 49

get_metadata_cascade_policies (boxsdk.object.folder.Folder attribute), 47

get_metadata_templates (boxsdk.client.client.Client attribute), 20

get_parts() (boxsdk.object.upload_session.UploadSession method), 67

get_pending_collaborations (boxsdk.client.client.Client attribute), 20

get_previous_versions (boxsdk.object.file.File attribute), 42

get_recent_items (boxsdk.client.client.Client attribute), 21

get_representation_info (boxsdk.object.file.File attribute), 42

get_retention_policies (boxsdk.client.client.Client attribute), 21

get_shared_item (boxsdk.client.client.Client attribute), 21

get_shared_link (boxsdk.object.item.Item attribute), 52

get_shared_link_download_url (boxsdk.object.file.File attribute), 42

get_shared_link_header() (in module boxsdk.util.shared_link), 79

get_storage_policies() (boxsdk.client.client.Client method), 22

get_storage_policy_assignment()

(boxsdk.object.user.User method), 69
 get_tasks (boxsdk.object.file.File attribute), 43
 get_terms_of_services() (boxsdk.client.client.Client method), 22
 get_thumbnail (boxsdk.object.file.File attribute), 43
 get_type_url() (boxsdk.object.base_object.BaseObject method), 33
 get_url() (boxsdk.client.client.Client method), 22
 get_url() (boxsdk.object.base_endpoint.BaseEndpoint method), 32
 get_url() (boxsdk.object.base_object.BaseObject method), 33
 get_url() (boxsdk.object.collaboration_whitelist_entry.CollaborationWhitelistEntry method), 36
 get_url() (boxsdk.object.events.Events method), 39
 get_url() (boxsdk.object.legal_hold.LegalHold method), 54
 get_url() (boxsdk.object.legal_hold_policy.LegalHoldPolicy method), 55
 get_url() (boxsdk.object.metadata.Metadata method), 56
 get_url() (boxsdk.object.metadata_cascade_policy.MetadataCascadePolicy method), 57
 get_url() (boxsdk.object.metadata_template.MetadataTemplate method), 58
 get_url() (boxsdk.object.retention_policy.RetentionPolicy method), 60
 get_url() (boxsdk.object.search.Search method), 61
 get_url() (boxsdk.object.storage_policy.StoragePolicy method), 63
 get_url() (boxsdk.object.terms_of_service_user_status.TermsOfServiceUserStatus method), 66
 get_url() (boxsdk.object.upload_session.UploadSession method), 68
 get_url() (boxsdk.session.session.Session method), 74
 get_user_status() (boxsdk.object.terms_of_service.TermsOfService method), 65
 get_watermark (boxsdk.object.item.Item attribute), 53
 get_webhooks (boxsdk.client.client.Client attribute), 22
 Group (class in boxsdk.object.group), 49
 group() (boxsdk.client.client.Client method), 22
 group_membership() (boxsdk.client.client.Client method), 23
 GroupMembership (class in boxsdk.object.group_membership), 50
 GroupRole (class in boxsdk.object.group), 49

H

headers (boxsdk.exception.BoxAPIException attribute), 81
 headers (boxsdk.network.default_network.DefaultNetworkResponse attribute), 28
 headers (boxsdk.network.network_interface.NetworkResponse attribute), 30

headers (boxsdk.session.box_request.BoxRequest attribute), 73
 headers (boxsdk.session.box_response.BoxResponse attribute), 73

I

INBOUND (boxsdk.object.collaboration_whitelist.WhitelistDirection attribute), 36
 INCOMPLETE (boxsdk.object.task_assignment.ResolutionState attribute), 64
 Invite (class in boxsdk.object.invite), 50
 invite() (boxsdk.client.client.Client method), 23
 InviteUser (boxsdk.object.enterprise.Enterprise attribute), 37
 is_json_response() (in module boxsdk.util.json), 77
 IS_SYNCED (boxsdk.object.folder.FolderSyncState attribute), 49
 Item (class in boxsdk.object.item), 50
 ITEM_DELETE (boxsdk.auth.oauth2.TokenScope attribute), 13
 ITEM_DOWNLOAD (boxsdk.auth.oauth2.TokenScope attribute), 13
 ITEM_PREVIEW (boxsdk.auth.oauth2.TokenScope attribute), 13
 ITEM_READ (boxsdk.auth.oauth2.TokenScope attribute), 13
 ITEM_READWRITE (boxsdk.auth.oauth2.TokenScope attribute), 13
 ITEM_SHARE (boxsdk.auth.oauth2.TokenScope attribute), 13
 ITEM_UPLOAD (boxsdk.auth.oauth2.TokenScope attribute), 13

J

json() (boxsdk.network.default_network.DefaultNetworkResponse method), 28
 json() (boxsdk.network.network_interface.NetworkResponse method), 30
 json() (boxsdk.object.metadata_template.MetadataField method), 58
 json() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59
 json() (boxsdk.session.box_response.BoxResponse method), 73
 JWTAuth (class in boxsdk.auth.jwt_auth), 10

L

legal_hold() (boxsdk.client.client.Client method), 23
 legal_hold_policy() (boxsdk.client.client.Client method), 23
 legal_hold_policy_assignment() (boxsdk.client.client.Client method), 23
 LegalHold (class in boxsdk.object.legal_hold), 54

LegalHoldPolicy (class in boxsdk.object.legal_hold_policy), 54

LegalHoldPolicyAssignment (class in boxsdk.object.legal_hold_policy_assignment), 55

LimitOffsetBasedDictCollection (class in boxsdk.pagination.limit_offset_based_dict_collection), 71

LimitOffsetBasedObjectCollection (class in boxsdk.pagination.limit_offset_based_object_collection), 71

lock (boxsdk.object.file.File attribute), 43

log() (boxsdk.network.default_network.DefaultNetworkResponse method), 28

LOGGER_NAME (boxsdk.network.default_network.DefaultNetworkResponse attribute), 27

LoggingClient (class in boxsdk.client.logging_client), 27

long_poll (boxsdk.object.events.Events attribute), 39

lookup() (boxsdk.util.enum.ExtensibleEnumMeta method), 77

LRUCache (class in boxsdk.util.lru_cache), 78

M

make_request (boxsdk.client.client.Client attribute), 23

make_single_metadata_filter() (boxsdk.object.search.Search static method), 62

MANAGED (boxsdk.object.terms_of_service.TermsOfService attribute), 65

MarkerBasedDictCollection (class in boxsdk.pagination.marker_based_dict_collection), 72

MarkerBasedObjectCollection (class in boxsdk.pagination.marker_based_object_collection), 72

MEMBER (boxsdk.object.group.GroupRole attribute), 50

message (boxsdk.exception.BoxAPIException attribute), 81

message (boxsdk.exception.BoxOAuthException attribute), 81

Metadata (class in boxsdk.object.metadata), 55

metadata() (boxsdk.object.item.Item method), 53

metadata_cascade_policy() (boxsdk.client.client.Client method), 24

metadata_template() (boxsdk.client.client.Client method), 24

metadata_template_by_id() (boxsdk.client.client.Client method), 24

MetadataCascadePolicy (class in boxsdk.object.metadata_cascade_policy), 57

MetadataField (class in boxsdk.object.metadata_template), 58

MetadataFieldType (class in boxsdk.object.metadata_template), 58

MetadataSearchFilter (class in boxsdk.object.search), 61

MetadataSearchFilters (class in boxsdk.object.search), 61

MetadataTemplate (class in boxsdk.object.metadata_template), 58

MetadataTemplateUpdate (class in boxsdk.object.metadata_template), 58

MetadataUpdate (class in boxsdk.object.metadata), 56

method (boxsdk.exception.BoxAPIException attribute), 81

method (boxsdk.exception.BoxOAuthException attribute), 81

method (boxsdk.session.box_request.BoxRequest attribute), 73

move (boxsdk.object.item.Item attribute), 53

MultipartStream (class in boxsdk.util.multipart_stream), 78

MULTISELECT (boxsdk.object.metadata_template.MetadataFieldType attribute), 58

N

Network (class in boxsdk.network.network_interface), 29

network_response (boxsdk.exception.BoxAPIException attribute), 81

network_response (boxsdk.exception.BoxOAuthException attribute), 81

network_response (boxsdk.session.box_response.BoxResponse attribute), 73

network_response_constructor (boxsdk.network.default_network.DefaultNetworkResponse attribute), 27

network_response_constructor (boxsdk.network.network_interface.NetworkResponse attribute), 29

NetworkResponse (class in boxsdk.network.network_interface), 30

next() (boxsdk.pagination.box_object_collection.BoxObjectCollection method), 70

next_pointer() (boxsdk.pagination.box_object_collection.BoxObjectCollection method), 70

next_pointer() (boxsdk.pagination.limit_offset_based_object_collection.LimitOffsetBasedObjectCollection method), 71

next_pointer() (boxsdk.pagination.marker_based_object_collection.MarkerBasedObjectCollection method), 72

NONE (boxsdk.object.search.TrashContent attribute), 63

NOT_SYNCED (boxsdk.object.folder.FolderSyncState attribute), 49

O

OAuth2 (class in boxsdk.auth.oauth2), 11

OAUTH2_API_URL (boxsdk.config.API attribute), 80

OAUTH2_AUTHORIZE_URL (boxsdk.config.API attribute), 80

object_id (boxsdk.object.base_object.BaseObject attribute), 33

object_type (boxsdk.object.base_api_json_object.BaseAPIJSONObject attribute), 31

ok (boxsdk.network.default_network.DefaultNetworkResponse attribute), 29

ok (boxsdk.network.network_interface.NetworkResponse attribute), 30

ok (boxsdk.session.box_response.BoxResponse attribute), 74

ONLY (boxsdk.object.search.TrashContent attribute), 63

ops (boxsdk.object.metadata.MetadataUpdate attribute), 56

options() (boxsdk.session.session.Session method), 75

OUTBOUNT (boxsdk.object.collaboration_whitelist.WhiteList attribute), 36

OVERWRITE (boxsdk.object.metadata_cascade_policy.CascadePolicy attribute), 57

OWNER (boxsdk.object.collaboration.CollaborationRole attribute), 34

P

Page (class in boxsdk.pagination.page), 72

PARTIALLY_SYNCED (boxsdk.object.folder.FolderSyncState attribute), 49

PENDING (boxsdk.object.collaboration.CollaborationStatus attribute), 35

permanently_delete_item (boxsdk.object.trash.Trash attribute), 66

post() (boxsdk.session.session.Session method), 75

preflight_check (boxsdk.object.file.File attribute), 43

preflight_check (boxsdk.object.folder.Folder attribute), 47

PRESERVE_EXISTING (boxsdk.object.metadata_cascade_policy.CascadePolicy attribute), 57

PREVIEWER (boxsdk.object.collaboration.CollaborationRole attribute), 34

PREVIEWER_UPLOADER (boxsdk.object.collaboration.CollaborationRole attribute), 34

promote_version (boxsdk.object.file.File attribute), 44

put() (boxsdk.session.session.Session method), 75

Q

query (boxsdk.object.search.Search attribute), 62

R

RecentItem (class in boxsdk.object.recent_item), 60

RedisManagedJWTAuth (class in boxsdk.auth.redis_managed_jwt_auth), 13

RedisManagedOAuth2 (class in boxsdk.auth.redis_managed_oauth2), 14

RedisManagedOAuth2Mixin (class in boxsdk.auth.redis_managed_oauth2), 14

RedisManagedOAuth2MixinResolution (class in boxsdk.auth.redis_managed_oauth2), 14

register() (boxsdk.util.translator.Translator method), 79

reject() (boxsdk.object.collaboration.Collaboration attribute), 34

reject() (boxsdk.object.terms_of_service.TermsOfService method), 65

reject() (boxsdk.object.terms_of_service_user_status.TermsOfServiceUserStatus method), 66

REJECTED (boxsdk.object.collaboration.CollaborationStatus attribute), 35

REJECTED (boxsdk.object.task_assignment.ResolutionState attribute), 64

RemoteOAuth2 (class in boxsdk.auth.remote_managed_oauth2), 14

RemoteOAuth2MixinResolution (class in boxsdk.auth.remote_managed_oauth2), 14

remove() (boxsdk.object.metadata.MetadataUpdate method), 56

remove_email_alias (boxsdk.object.user.User attribute), 69

remove_enum_option() (boxsdk.object.metadata_template.MetadataTemplate method), 59

remove_field() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59

remove_from_collection (boxsdk.object.item.Item attribute), 53

remove_shared_link (boxsdk.object.item.Item attribute), 54

rename (boxsdk.object.item.Item attribute), 54

reorder_enum_options() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59

reorder_fields() (boxsdk.object.metadata_template.MetadataTemplateUpdate method), 59

reply (boxsdk.object.comment.Comment attribute), 37

request() (boxsdk.network.default_network.DefaultNetworkResponse method), 27

request() (boxsdk.network.network_interface.NetworkResponse method), 29

request() (boxsdk.session.session.Session method), 75

REQUEST_FORMAT (boxsdk.network.default_network.DefaultNetworkResponse attribute), 27

request_id (boxsdk.exception.BoxAPIException attribute), 81

request_response (boxsdk.network.default_network.DefaultNetworkResponse attribute), 29

ResolutionState (class in boxsdk.object.task_assignment), 64

response_as_stream (boxsdk.network.default_network.DefaultNetworkResponse attribute), 29

response_as_stream (boxsdk.network.network_interface.NetworkResponse attribute), 30

response_object (boxsdk.object.base_api_json_object.BaseAPIJSONObject attribute), 31

attribute), 31
 response_object (boxsdk.pagination.page.Page attribute), 72
 restore_item (boxsdk.object.trash.Trash attribute), 66
 retention_policy() (boxsdk.client.client.Client method), 24
 retention_policy_assignment()
 (boxsdk.client.client.Client method), 24
 RetentionPolicy (class in boxsdk.object.retention_policy), 60
 RetentionPolicyAssignment (class in boxsdk.object.retention_policy_assignment), 60
 retry_after() (boxsdk.network.default_network.DefaultNetwork method), 28
 retry_after() (boxsdk.network.network_interface.Network method), 29
 revoke() (boxsdk.auth.developer_token_auth.DeveloperTokenAuth method), 9
 revoke() (boxsdk.auth.oauth2.OAuth2 method), 13
 root_folder() (boxsdk.client.client.Client method), 24
 status_code (boxsdk.session.box_response.BoxResponse attribute), 74
 storage_policy() (boxsdk.client.client.Client method), 24
 storage_policy_assignment() (boxsdk.client.client.Client method), 25
 StoragePolicy (class in boxsdk.object.storage_policy), 63
 StoragePolicyAssignment (class in boxsdk.object.storage_policy_assignment), 63
 STREAM_CONTENT_NOT_LOGGED (boxsdk.network.default_network.DefaultNetworkResponse attribute), 28
 STRING (boxsdk.object.metadata_template.MetadataFieldType attribute), 58
 SUCCESSFUL_RESPONSE_FORMAT (boxsdk.network.default_network.DefaultNetworkResponse attribute), 28
 SYNC (boxsdk.object.events.EventsStreamType attribute), 40
 SYNC (boxsdk.object.events.UserEventsStreamType attribute), 40

S

sanitize_dictionary() (in module boxsdk.util.log), 78
 scope (boxsdk.object.metadata_template.MetadataTemplate attribute), 58
 search (boxsdk.client.client.Client attribute), 24
 Search (class in boxsdk.object.search), 61
 SearchScope (class in boxsdk.object.search), 62
 send_token_request() (boxsdk.auth.oauth2.OAuth2 method), 13
 session (boxsdk.client.client.Client attribute), 24
 session (boxsdk.object.base_endpoint.BaseEndpoint attribute), 32
 session (boxsdk.object.cloneable.Cloneable attribute), 33
 Session (class in boxsdk.session.session), 74
 set() (boxsdk.util.lru_cache.LRUCache method), 78
 set_user_status() (boxsdk.object.terms_of_service.TermsOfService method), 65
 setup_logging() (in module boxsdk.util.log), 78
 start_metadata_filters() (boxsdk.object.search.Search static method), 62
 start_update() (boxsdk.object.metadata.Metadata static method), 56
 start_update() (boxsdk.object.metadata_template.MetadataTemplate static method), 58
 status (boxsdk.exception.BoxAPIException attribute), 81
 status (boxsdk.exception.BoxOAuthException attribute), 81
 status_code (boxsdk.network.default_network.DefaultNetworkResponse attribute), 29
 status_code (boxsdk.network.network_interface.NetworkResponse attribute), 30

T

Task (class in boxsdk.object.task), 63
 task() (boxsdk.client.client.Client method), 25
 task_assignment() (boxsdk.client.client.Client method), 25
 TaskAssignment (class in boxsdk.object.task_assignment), 64
 template_key (boxsdk.object.metadata_template.MetadataTemplate attribute), 58
 terms_of_service() (boxsdk.client.client.Client method), 25
 terms_of_service_user_status()
 (boxsdk.client.client.Client method), 25
 TermsOfService (class in boxsdk.object.terms_of_service), 64
 TermsOfServiceStatus (class in boxsdk.object.terms_of_service), 65
 TermsOfServiceType (class in boxsdk.object.terms_of_service), 65
 TermsOfServiceUserStatus (class in boxsdk.object.terms_of_service_user_status), 65
 test() (boxsdk.object.metadata.MetadataUpdate method), 57
 TextEnum (class in boxsdk.util.text_enum), 79
 TokenResponse (class in boxsdk.auth.oauth2), 13
 TokenScope (class in boxsdk.auth.oauth2), 13
 token_response (boxsdk.object.user.User attribute), 69
 translate() (boxsdk.util.translator.Translator method), 79
 translator (boxsdk.client.client.Client attribute), 25
 translator (boxsdk.object.base_endpoint.BaseEndpoint attribute), 32

translator (boxsdk.session.session.Session attribute), 75
Translator (class in boxsdk.util.translator), 79
Trash (class in boxsdk.object.trash), 66
trash() (boxsdk.client.client.Client method), 25
TrashContent (class in boxsdk.object.search), 63

U

unauthorized_session_class (boxsdk.client.client.Client attribute), 25
unique_id (boxsdk.auth.redis_managed_oauth2.RedisManagedOAuth2 attribute), 14
unlock (boxsdk.object.file.File attribute), 44
untranslated_fields() (boxsdk.object.base_api_json_object.BaseAPIJSONObject class method), 31
update (boxsdk.object.metadata.Metadata attribute), 56
update() (boxsdk.object.metadata.MetadataUpdate method), 57
update_contents (boxsdk.object.file.File attribute), 44
update_contents_with_stream (boxsdk.object.file.File attribute), 44
update_info (boxsdk.object.base_object.BaseObject attribute), 33
update_info (boxsdk.object.collaboration.Collaboration attribute), 34
update_info (boxsdk.object.item.Item attribute), 54
update_info (boxsdk.object.metadata_template.MetadataTemplate attribute), 58
update_sync_state (boxsdk.object.folder.Folder attribute), 47
upload (boxsdk.object.folder.Folder attribute), 48
upload_part_bytes() (boxsdk.object.upload_session.UploadSession method), 68
upload_session() (boxsdk.client.client.Client method), 26
upload_stream (boxsdk.object.folder.Folder attribute), 48
UPLOAD_URL (boxsdk.config.API attribute), 80
UPLOADER (boxsdk.object.collaboration.CollaborationRole attribute), 34
UploadSession (class in boxsdk.object.upload_session), 67
url (boxsdk.exception.BoxAPIException attribute), 81
url (boxsdk.exception.BoxOAuthException attribute), 81
url (boxsdk.session.box_request.BoxRequest attribute), 73
USER (boxsdk.object.search.SearchScope attribute), 62
User (class in boxsdk.object.user), 68
user() (boxsdk.client.client.Client method), 26
USER_AGENT_STRING (boxsdk.config.Client attribute), 80
UserEventsStreamType (class in boxsdk.object.events), 40
users (boxsdk.client.client.Client attribute), 26

V

VERSION (boxsdk.config.Client attribute), 80

VIEWER (boxsdk.object.collaboration.CollaborationRole attribute), 34
VIEWER_UPLOADER (boxsdk.object.collaboration.CollaborationRole attribute), 34

W

Watermark (class in boxsdk.object.watermark), 69
web_link() (boxsdk.client.client.Client method), 26
Webhook (class in boxsdk.object.webhook), 70
webhook() (boxsdk.client.client.Client method), 26
WebLink (class in boxsdk.object.web_link), 70
WhitelistDirection (class in boxsdk.object.collaboration_whitelist), 36
with_default_network_request_kwargs() (boxsdk.session.session.Session method), 75
with_metaclass() (in module boxsdk.util.compat), 76
with_shared_link() (boxsdk.object.cloneable.Cloneable method), 34
with_shared_link() (boxsdk.session.session.Session method), 75